Domestic Office Locations in China

Region:	Province:	Address:
Northeast Region	Heilongjiang Province	Intersection of Republican Road and Shijiao Road,Hulan District,Harbin City,
	Liaoning Province	113 Nanjing North Street, Heping District, Shenyang City, Liaoning Province
Eastern China	Shanghai	No. 15, Lane 38, Caoli Road, Jinshan District, Shanghai
	Zhejiang Province	
	Jiangsu Province	Room 8609, 6th Floor, Building 3, JinJulong Building, No. 9 Gaohu Road, Jiangning District, Nanjing City, Jiangsu Province
		Room 307, No. 58 Huyang Road, Hushuguan Town, Huqiu District, Suzhou City, Jiangsu Province
	Anhui Province	No.1 Heping Road, Development Zone, Chizhou City, Anhui Province
	Shandong Province	1912, East Unit, Building 4, Lemeng Center, Huaiyin District, Jinan City, Shandong Province
	Jiangxi Province	Guangzhou Road East China International Industrial Expo City, Qingyunpu District, Nanchang City, Jiangxi Province
	Fujian Province	G324 National Highway Qianjin Xijing Yili, Houxi Town, Jimei District, Xiamen City, Fujian Province
North China	Beijing	Room 1204, Building 10, Junyue International, Daxing District, Beijing
	Tianjin	
	Shanxi Province	
	Hebei Province	
	Inner Mongolia	Room 204, Unit 2, Building 11, Yurong Guandi, Shahe West Street, Jiuyuan District, Baotou City, Inner Mongolia Autonomous Region
Central China	Henan Province	No.39, 3rd Floor, Greenland Yuansheng International 3C, Jinshui District, Zhengzhou City, Henan Province
	Hubei Province	Room 1304, Unit 1, Building 16, Vision Cheng B, Jiangjun Road Street, Dongxihu District, Wuhan City, Hubei Province
	Hunan Province	268 Wanjiali Road, Yuhua District, Changsha City, Hunan Province
South China	Guangdong Province	Room 1504, Block B, Aoyuan Central Plaza, Jingang Avenue, Nansha District, Guangzhou City, Guangdong Province
	Guangxi Province	
	Taiwan Province	
Southwest of China	Chongqing	1801, Building 8, City Garden, Yubei District, Chongqing
	Tibet	
	Yunnan Province	Science and Technology Innovation Park, No. 3 Jingkai Road, Kunming Economic Development Zone
	Guizhou Province	Building 2, Financial Street, Nanming District, Guiyang City, Guizhou Province
	Sichuan Province	Building 9, Wanjingfeng Phase II, No. 8 Shangya Road, High tech West Zone, Chengdu City
Northwest of China	Shanxi Province	Room 20707, Building 1, Lijun V, Fengcheng 1st Road and Weiyang Road, Weiyang District, Xi'an City, Shaanxi Province
	Qinghai Province	
	Gansu Province	Inside the Yongding Center Market in Anding District, Dingxi City, Gansu Province
	Ningxia Province	Building 4, South District of Helan Red River Valley, Yinchuan, Ningxia
	Xinjiang UygurAutonomous Region	556 Beijing South Road, Xinshi District, Urumqi, Xinjiang

GESO SYSTEMS

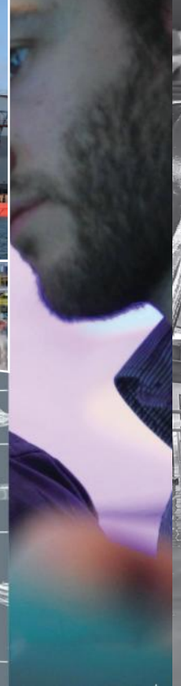
AFTER PURIFICATION TREATMENT EQUIPMENT

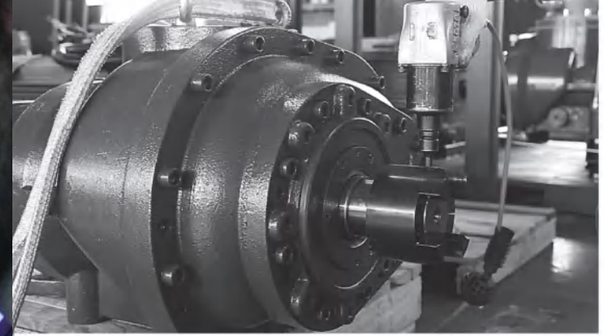
Shanghai Geso Systems Industrial PLC

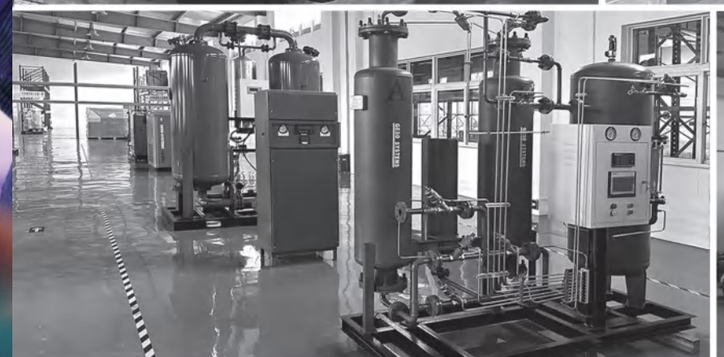
GESO SYSTEMS

Shanghai Geso Systems Industrial PLC
Address:No.15,Lane 38,Cao Li Road,Jinshan District,Shanghai,China
Website: www.gesosystems.net TEL: +86 21- 57895398

ISO9001







Company Profile

Superior Quality and Intelligent Future

Geso is a global aerodynamic systems group of companies,wholly owned by BAE GESO SYSTEMS,headquartered in London,United Kingdom,and a leader in the European gases sector.

BAE Systems,the parent company of Geso Group,was founded in 1871 and is committed to the research,development and production of industrial gases.In 2002,BAE Systems set up a representative office in China,importing products from the United Kingdom to China and deploying after-sales service offices in China,and in 2018 BAE Systems established a wholly-owned company "Shanghai Geso systems Industrial PLC and invested 11 million U.S.dollars to build an intelligent production and manufacturing center.In R&D,production and market expansion.Our products include energy-saving screw air compressors,nitrogen/oxygen generators,dry oil-free air compressors,water-injected oil-free air compressors,mobile air compressors,process gas compressors,medium and high pressure screw air ompressors,centrifugal air compressors,etc,which are widely used in various industrial production.The group has three companies, "Shanghai Geso systems Industry PLC","Jiangsu Geso Equipment Co.Ltd.","Shangahi Geso Energy Equipment Co.Ltd."more than 30 branches and offices and more than 200 distributors nationwide,providing high-quality intelligent and energy-saving air compressor system solutions for various industries energy-saving programs to reduce users'cost of use to ensure users'satisfaction and energy-saving effect.We have been selected as one of the top ten brands for three consecutive years by third-party organizations such as China Brand Network.As a global aerodynamic system.

GESO SYSTEMS

Inheriting the advanced technology and production management mode of BAE Systems and combining it with China's market demand in order to ensure the production safety of users, Geso Group strictly follows the product development process of the Group, and each new product undergoes 40 test items and 3,000 hours of durability test to ensure the quality of the products from the source. Selecting IE5 energy-saving motors, ABB electronic control system, and threestage frequengy conversion energy-saving system to reduce energy consumption and CO2 emissions, meanwhile, through the optimized design and lowering the speed of the machine, it saves the cost for the customers and realizes small investment and big power. Self-developed intelligent Internet of Things (IoT) technology realizes convenient interconnected management with air compressors through computers, cell phones and iPads to realize automatic and precise supply and meet the experience of unattended automation.

As a wholly foreign-owned enterprise, it is also the authorized production and assembly base of screw compressors for BAE Systems in UK. We have obtained 1SO9001 quality system certification, ISO45001 occupational health and safety management system certification, ISO14001 environmental management system certification, certificate 0 oil-free certification, EU CE certification, energy efficiency certification of air compressors, 3A integrity system certification and other certificates, which fully guarantee the safety of users.

Through years of high-speed development, Geso Group has service outlets in more than 200 cities across the country, 24-hour service hotline response and internet warranty service, and thirteen direct spare parts warehouses to provide customers with repair services in a more rapid and timely manner. After-sales service is not limited to the

product itself,but also includs compressed air system testing and optimization, air compressor intelligent air supply control, waste heat recovery, frequency conversion.energy-saving piping, cables, construction of turnkey projects and a series of complete set of systematic services. Based on our service concept we promise lifelong We are exempt from labor charges, provide free training services for customers, regularly test the data of users' energy efficiency reports, and develop group of companies, we carry the mission of innovation, quality and service Whether it is energy saving and environmental protection or intelligent, always adhere to the praise of customer experience as the center of the hard working people. Geso, to build a globally recognized brand of fluid machinery, and continue to be the industry leader in high-end energysaving products.

Milestones

1871

The British head office was established as "BAE MARCONI ELETRONIC SYSTEMS",located in the United Kingdom.London,the same year the development and production of the first reciprocating compressor prod-ucts,dedicated to the field of industrial gases research and development.

1910

The company's main business was expanded to multiple fields:air compressors,nitrogen/oxygen air separation equipment,Integrated Electronic products,to the company's core products research and develop-ment of single-cylinder reciprocating air compressor technology and mass production.

1999

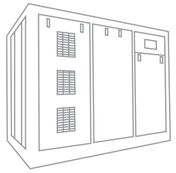
Established "BAE GESO SYSTEMS LTD" and developed the first twinscrew air compressor.GESO SYSTEMS was established as a brand name for shrinking machines.2000 The company developed and produced the first dry Type oil-free screw air compressor into the market,which was widely used in European medical treatment, Food,electronics industry.

2000

The company developed and produced the first dry oil-free screw air compressor into the market,and is widely used in the European medical,food and electronics industries.

2002

BAE Group set up a representative office in China, products from the United Kingdom production after the original import of the whole machine equipment for the Chinese market.We have expanded and successfully entered the Chinese aerospace.



2006

China's provincial capital cities to build a total of 26 after-sales service operation network,the full deployment of aftersales service system,rapid response and to protect the user's experience.

2016

Established a warehousing and logistics center in Shanghai, China,to ensure the timely supply of complete machines and spare parts for the Chinese market.

2018

The British BAE Group registered and established "Shanghai Geso systems industrial PLC" in China and set up a compressor assembly plant in Shanghai, China at the same time, with a registered capital of 11 million US dollars.

2021

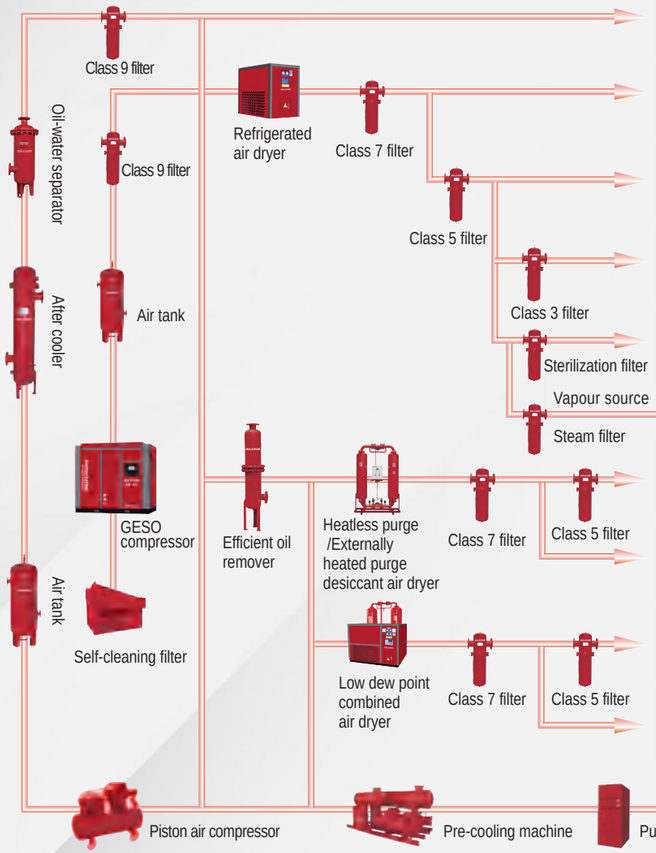
Invested and established"Jiangsu Geso Equipment Co,Ltd."and set up a nitrogen/oxygen air separation equipment sales company in Suzhou,and in the same year,set up the second-phase annual output of 300 sets of nitrogen/oxygen equipment in the Shanghai factory,and set up the R&D and production of nitro-gen/oxygen control and separation equipment.In the same year,we set up the second phase of the project of 300 sets of nitrogen/oxygen equipment in Shanghai factory to increase the R&D and production of nitrogen/oxygen control equipment.

2022

Invested in the establishment of "Shanghai Geso Energy Equipment Co,Ltd." and in the country's provincial capitals of the original part of the office was registered as a branch to complete the production of Separate sales and realize the efficiency and convenience of national market development and service.

Certificates

Compressed Air Purification System Configuration



removed moisture:99% oil content:5ppm dusty particle diameter:<3um	air tools,pneumatic chuck,general clean air gun
atmospheric dew point:-23℃ oil content:1ppm dusty particle diameter:<1um	pneumatic machinery,electroplating spray painting and other process that needs compressed air
atmospheric dew point:-23℃ oil content:0.01ppm dusty particle diameter:<0.01um	advanced spraying, pneumatic transmission, pneumatic bearing,gauges
atmospheric dew point:-23℃ oil content:0.003ppm dusty particle diameter:<0.01um	pharmacy,food,industry, breathing air,deodorization, degermination
atmospheric dew point:-23℃ oil content:0.01ppm dusty particle diameter:<0.01um	dairy product,dental instruments, biological engineering,food processing,pharmaceuticals industry
pressure dew point: 20-70℃ oil content:0.01ppm dusty particle diameter:<0.01um	electricity power, chemical engineering, precision machinery
pressure dew point: 20-70℃ oil content:0.01ppm dusty particle diameter:<0.5um	pneumatic instrument, textile and chemical fiber, environmental protection industry
pressure dew point:-40-70℃ oil content:0.01ppm dusty particle diameter:<0.01um	rubber sheet,electronic components air drying
pressure dew point:-40-70℃ oil content:0.01ppm dusty particle diameter:<1um	biological engineering,advanced spraying,electronic industry
oxygen production,ammonia production industry	

Note

- The above chart for reference only,it can be adjusted according to the actual conditions.
- According to the actual situation.the dryer is generally installed after the aftercooler or buffer air storage tank to avoid its overload work and its impulse airflow impact.
- Dryer compressed air inlet and outlet should be installed bypass valve.
- A space of not less than I meter should be left around the dryer for ventilation and heat dissipation and maintenance.
- The driver will operate continuously under rated operating conditions (i.e.inlet temperature 38°C, inlet pressure 7kg/cm² ,relative humidity 100% and maximum load 100%) and the outlet dew point will be guaranteed to be at the original set value.

The correct choice of a refrigerated dryer must be considered at the same time the actual flow of compressed air,pressure.temperature.ambient temperature and the required pressure dew point temperature . When the pressure dew point of compressed air is below zero.the suction dryer is the first choice of equipment to deal with compressed air.

Compressed Air
Purification Equipments

High temperature air-cooled refrigeration dryer

High temperature water-cooled refrigeration dryer

Compression Waste Heat Suction Dryer

Low Dew point Combination Dryer

Zero hir Consumption Blast Heat Dryer

Wodule Dryer

Heatless adsorption dryer

Heated purge adsorption dryer

Waste oil collector

oil-water separator

High efficiency degreaser

Precision filters

Solutions To Reduce
Energy Consumption

- The dryer is a reliable and low energy compressed air treatment solution: In order to prevent condensate precipitation in the compressed air and the resulting corrosion and equipment damage, we must dry the compressed air to remove the moisture from the compressed air, thus reducing the hazards to the air piping system.
- Increase filtration equipment, improve the compressed air purification equipment system installation: in the compressed air system to add filtration equipment will further improve the quality of compressed air, and at the same time reduce the possibility of damage to the pneumatic tools, air piping.

01

Hidden Hazards in Untreated Compressed Air

Compressed air is an important power source widely used in all areas of industry. Then natural air is compressed, the amount of water vapor and dust contained per unit volume rises dramatically. At the same time, the compression process makes the water vapor in the air condense with the oilmist into small droplets, and then mixed with a high concentration of dust to form a mostly acidic sludge. If there is no compressed air after treatment equipment,these acidic sludge will enter the air pipeline,corrode the pipe line material, damage the pneumatic tools, equipment, and ultimately make the product quality decline, production stagnation, maintenance costs increase, health and safety threat.

02

Poor Compressed Air Quality Will Increase The Cost Of Use

If acidic sludge gets into the compressed air lines, the following problems it causes will soon appear:

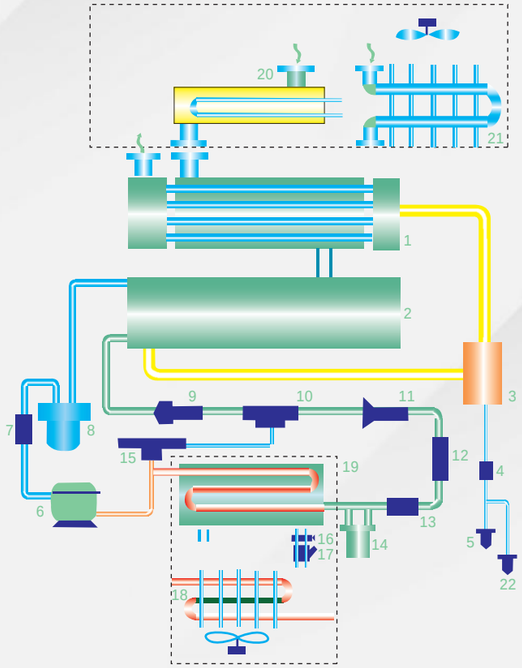
- Pneumatic tools and equipment have a reduced service life,accelerating the frequency of their damage.
- End products and other materials that may come into contact with compressed air will be damaged or have a lower quality rating.
- Compressed air lines are corroded and may leak, wasting compressed air and energy.In fact a leak of only 3mm will lose 3. 7KW of energy. which means an additional ￥18,000 per year in energy costs.

03

Qualified Drying System Should Have The Conditions

- Selection of purification systems is based on the rated air pressure and pressure Select the type of dryer on the basis of the inlet temperature, rated gas volume, rated pressure value and the surrounding ambient temperature.
- Based on the dryness, i.e, the dew point value, select what type of dryer to configure.
- Based on the level of oil content and dust content,select the number of stages of filtration and confirm the type of filter.
- Confirm the piping configuration and select the piping material based on the dew point, oil content, and dust content.
- In workplaces with a large amount of environmental dust,self-cleaning filters should be installed to protect the air compressor and ensure the purification effect.
- The process of compressed air drying and purification is mainly the process of drying and filtration, and it is also a process of decreasing temperature. Temperature plays an important role in purification, inlet temperature, ambient temperature directly affects the drying, purification effect.
- In the whole compressed air system, the setting of the storage tank also plays an important role.
- Because the storage tank has the role of stabilizing the airflow,cooling, sewage. and storing the gas, the storage tank should be set up between the compressed air and the drying and purifying equipment, and between the drying and purifying equipment and the terminal air point.
- Important systems add waste oil collectors to collect the oil and discharge the water that meets environmental requirements directly to the river.

Refrigerated
Air Compressor Dryer



Flow chart

1. Heat exchanger
2. Evaporator
3. Gas/liquid separator
4. Jam-prevent drain filter
5. Manual draining valve
6. Refrigerated compressor
7. Aspirating filter
8. Vaporization
9. Separator
10. Gas/liquid mixer
11. Thermal expansion valve
12. View monitor
13. Dry filter
14. Tank
15. Hot gas by-pass valve
16. Water adjustable valve
17. Water filter
18. Condenser (Air-cooling)
19. Condenser (Water-cooling)
20. Pre-cooler (Water-cooling)
21. Pre-cooler (Air-cooling)
22. Auto-drainer

Features of Refrigerated Dryer

To meet your needs in different working conditions

Refrigerated dryers are divided into aircooled (room Temperatrue,high temperature)， watercooled (room temperatrue,high temperature)and low lemperature type,ecofriendly type, and frequency conversion type.

01

Easy Installation

Single electrical interface, ready to install

02

Thorough gas-liquid separation

Adopting independent patented filtering gas-liquid separator with high separation efficiency.

03

Stable performance

Selection, threaded pipe (or light pipe), high heat transfer coefficient, and the use of countercurrent heat return heat exchange,condensate separation of refrigerated dryers, and through the drain valve out of the machine, will not produce ice blocking phenomenon,there will be no moisture into the compressed air pipeline.

04

GESO SYSTEMS

Air Cooled Refrigerated Dryer

Intake temperature: ≤ 80℃
Cooling mode：Air cooling
Ambient temperature：≤ 38℃
Pressure dew point：2～10℃
Intake pressure：0.7～1.0Mpa
Pressure loss：≤ 0.02Mpa
Refrigerant：R22、R07、R34a

Technical parameter

Model	Capacity (Nm^3/min)	Power supply (V/HZ)	Whole machine power (KW)	Air connection	Net weight (KG)	Dimensions（mm）		
						L	W	H
GD015GF	1.5	220/50	0.7	G1	55	720	420	750
GD026GF	2.6	220/50	0.9	G1	60	810	450	750
GD040GF	4.0	220/50	1.1	G1 1/2	70	810	500	800
GD065GF	6.5	220/50	1.5	G1 1/2	90	950	550	900
GD085GF	8.5	220/50	1.9	G2	130	1100	600	1000
GD115GF	11.5	380/50	2.5	G2	160	1200	650	1100
GD138GF	13.8	380/50	3.0	G2	170	1200	650	1100
GD175GF	17.5	380/50	3.4	DN65	190	1250	700	1200
GD230GF	23.0	380/50	4.2	DN80	300	1450	800	1350
GD270GF	27.0	380/50	5.1	DN80	360	1650	850	1400
GD350GF	35.0	380/50	6.0	DN80	390	1650	850	1400
GD450GF	45.0	380/50	7.9	DN100	620	1850	950	1550
GD550GF	55.0	380/50	10.0	DN125	660	2000	950	1850
GD650GF	65.0	380/50	11.5	DN125	800	2000	950	1850
GD850GF	85.0	380/50	16.5	DN125	1600	2500	1350	2070

Note: GD-015GF, where G stands for high temperature and F stands for ait-cooled.

Water Cooled Refrigerated Dryer

Intake temperature：≤ 80℃
Pressure loss：≤ 0.02Mpa
Pressure dew point：2～10℃
Refrigerant：R22、R07、R34a
Intake pressure：0.7～1.0Mpa
Cooling mode：Water cooling
Cooling water inlet temperature)：≤ 32℃

Technical parameter

Model	Capacity (Nm^3/min)	Power supply (V/HZ)	Whole machine power (KW)	Cooling water flow (Nm^3/min)	Air connection	Cooling water inlet and outlet diameter	Weight (KG)	Dimensions（mm）		
								L	W	H
GD170GW	17.0	380/50	3.0	3.7	DN65	G1	360	1250	700	1200
GD230GW	23.0	380/50	3.8	4.5	DN80	G1	420	1450	800	1350
GD270GW	27.0	380/50	4.6	6.0	DN80	G1	550	1450	800	1350
GD350GW	35.0	380/50	6.0	7.4	DN80	G1 1/2	640	1650	850	1400
GD450GW	45.0	380/50	7.5	9.0	DN100	G1 1/2	730	1850	950	1550
GD550GW	55.0	380/50	9.0	11.0	DN125	G1 1/2	850	2000	950	1850
GD650GW	65.0	380/50	11.3	12.5	DN125	G2	1020	2000	950	1850
GD850GW	85.0	380/50	15.0	14.5	DN125	G2	1600	2500	1350	2100
GD1100GW	110.0	380/50	18.8	16.5	DN150	G2	2400	2500	1350	2100
GD1300GW	130.0	380/50	22.5	18.5	DN150	G2 1/2	2560	2500	1450	2100
GD1500GW	150.0	380/50	27.8	21.5	DN200	G2 1/2	2750	2650	1550	2200
GD1800GW	180.0	380/50	33.8	24.5	DN200	G2 1/2	3250	2750	1650	2300
GD2100GW	210.0	380/50	37.5	36.0	DN200	DN80	3600	3450	1750	2400
GD3000GW	300.0	380/50	60.0	48.0	DN250	DN80	4250	3800	2000	2600
GD4000GW	400.0	380/50	75.0	60	DN300	DN100	4560	4200	2150	2700

Note: GD-015GW, where G stands for high temperature and W stands for water-cooled.

Adsorption
Compressed Air Dryer

The features of adsorption compressed air dryers

01 With stable outlet pressure and dew point:30% additional adsorbent to compensate for the natural aging of the adsorbent and thus stabilize the pressure dew point.

02 Diverter design to eliminate gutter flow:excellent performance diverter is adopted in the design, so that the compressed air can contact with the adsorbent uniformly and eliminate the gutter flow phenomenon.

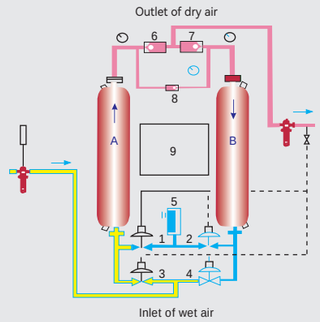
03 Reliable performance of the valve parts: the use of national patented combination of valves, control system using a single chip microcomputer for automatic control.stable performance.

04 unique layering technology: According to the adsorption characteristics of alumina and molecular sieve,the layering technology is developed. so that the air first passes through the alumina for preliminary drying reducing the water content in the air and then through the molecular sieve for in-depth drying. to achieve the air quality with low dew point.

Working principle

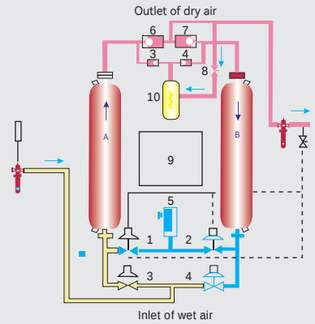
Adsorption compressed air dryer is through the pressure change (variable pressure adsorption principle) to achieve the drying effect, the two towers cycle work, continuous to the user air system to provide dry compressed air. According to the regeneration method of adsorbent, it can be divided into non-thermal regeneration adsorption dryer and micro-thermal regeneration adsorption dryer.

Heatless adsorption dryer process flow



A, B Adsorption tower	1, 2, 3, 4 switching valves	5 Muffler
6, 7 Check valves	8 Throttle Valves	9 Program controller

Process flow of micro heat adsorption dryer



A, B Adsorption tower	1、2、3、4 Switching Valves	5 Muffler	8 Throttle Valves
3, 4, 6, 7 Check valves	9 Program controller	10 Electric heaters	

Heatless regeneration adsorption dryer

The heatless regenerative adsorption dryer utilizes variable pressure adsorption" to achieve the drying effect. As the ability of air to hold water vapor is inversely proportional to the pressure, a portion of the air after drying (called regeneration air) decompression and expansion to atmospheric pressure, this pressure change makes the expansion air become drier, and then let it flow through the desiccant layer that needs to be regenerated without connecting to the airflow (i.e., the desiccant tower that has absorbed enough water vapor), and the dry regeneration air will draw out the water in the desiccant, and bring it out of the desiccant to achieve the purpose of dehumidification.

Regenerated gas volume：≤ 8～14%
Working pressure：0.6～1.0Mpa
Inlet oil content：≤ 0.1mg/m3
Pressure dew point：-20℃～-40℃
Work cycle)：T=4～20 Minutes
Intake temperature)：0℃～40℃
Desiccant：Activated alumina or molecular sieve

Technical parameter

Model	Capacity (Nm^3/min)	Power supply (V/HZ)	Whole machine power (KW)	Air connection	Net weight (KG)	Dimensions（mm）		
						L	W	H
GHE15WR	1.5	220/50	0.15	G1	95	750	400	1400
GHE26WR	2.6	220/50	0.15	G1	110	750	400	1650
GHE38WR	3.8	220/50	0.15	G1 1/2	210	1000	500	1500
GHE65WR	6.5	220/50	0.15	G1 1/2	260	1000	500	1950
GHE85WR	8.5	220/50	0.15	G2	300	1000	500	1950
GHE115WR	11.5	220/50	0.15	G2	360	1100	500	2050
GHE138WR	13.8	220/50	0.15	G2	460	1200	530	2100
GHE170WR	17.0	220/50	0.15	DN65	530	1250	600	2200
GHE230WR	23.0	220/50	0.15	DN80	630	1400	600	2250
GHE270WR	27.0	220/50	0.15	DN80	800	1400	600	2500
GHE350WR	35.0	220/50	0.15	DN80	1000	1500	600	2550
GHE450WR	45.0	220/50	0.15	DN100	1200	1900	1000	2700
GHE550WR	55.0	220/50	0.15	DN125	1600	2000	1200	2800
GHE650WR	65.0	220/50	0.15	DN125	1900	2100	1300	2800
GHE850WR	85.0	220/50	0.15	DN125	2400	2400	1350	2850
GHE1000WR	100.0	220/50	0.15	DN150	2900	2650	1500	2950
GHE1500WR	150.0	220/50	0.15	DN200	4200	2800	1800	3000
GHE2000WR	200.0	220/50	0.15	DN250	6250	2900	2000	3200

Note: WR in GHEt15WR stands for heatless

Adsorption
Compressed Air Dryer

Heated purge regenerated dryers

Heated purge regeneration adsorption dryer synthesizes the advantages of variable pressure adsorption and variable temperature adsorption. Adsorption at room temperature and high partial pressure of water and gas.(The adsorbent adsorbs water during the adsorption process and removes it during the regeneration process by a combination of thermal diffusion of regenerated air(heated by dry air) and a high pressure difference.

Regenerated gas volume：≤ 4～6%
Working pressure：0.6～1.0Mpa
Inlet oil content：≤ 0.1mg/m3
Pressure dew point：-20℃～-70℃

Work cycle：T=60～180 Minutes
Intake temperature：2℃～40℃
Desiccant：Activated alumina or molecular sieve

Technical parameter

Model	Capacity (Nm^3/min)	Power supply (V/HZ)	Whole machine power (KW)	Air connection	Net weight (KG)	Dimensions（mm）		
						L	W	H
GHE15MR	1.5	220/50	1.2	G1	120	750	400	1400
GHE26MR	2.6	220/50	1.5	G1	135	750	400	1650
GHE38MR	3.8	220/50	2.0	G1 1/2	240	1000	500	1500
GHE65MR	6.5	380/50	3.0	G1 1/2	310	1000	500	1950
GHE85MR	8.5	380/50	4.0	G2	335	1000	500	1950
GHE115MR	11.5	380/50	4.5	G2	400	1100	500	2050
GHE138MR	13.8	380/50	5.0	G2	500	1200	550	2100
GHE170MR	17.0	380/50	5.5	DN65	580	1250	600	2200
GHE230MR	23.0	380/50	6.0	DN65	690	1400	550	2219
GHE270MR	27.0	380/50	8.0	DN80	860	1400	600	2500
GHE350MR	35.0	380/50	10.0	DN80	950	1500	600	2550
GHE450MR	45.0	380/50	12.0	DN100	1200	1900	1000	2700
GHE550MR	55.0	380/50	15.0	DN125	1600	2000	1200	2800
GHE650MR	65.0	380/50	18.0	DN125	1900	2100	1300	2800
GHE850MR	85.0	380/50	24.0	DN125	2400	2400	1350	2850
GHE1000MR	100.0	380/50	30.0	DN150	3000	2650	1500	3000
GHE1500MR	150.0	380/50	45.0	DN200	4200	2800	1800	3000
GHE2000MR	200.0	380/50	60.0	DN250	6500	2800	2000	3200

Note: MR in GHE15MR stands for heated purge

Combined Low Dew
Point Compressed Air Dryer

Combined low dew-point dryer is designed from refrigerating dryer and adsorption dryer (heatless or heated purge) through reasonable pipeline connection and volume matching. The refrigerating dryer has strong water removal ability, low energy consumption and low gas loss, and combined with the low dew point of adsorption dryer, it can maximize the advantages of both of them.

Working Principle

Before the compressed air enters into the adsorption dryer,the refrigerating dryer is used to carry out pre-treatment first, so that a large amount of water is removed in the refrigerating dryer first, and then enters into the adsorption dryer to carry out indepth drying to achieve a low pressure dew point, and the lower limit of the pressure dew point can be up to -70° C.The compressed air can be dried in the refrigerating dryer before it enters into the adsorption dryer.

Intake pressure：0.6～1.0Mpa
Pressure dew point：-40～-70℃
Pressure loss：≤ 0.05Mpa
Cooling water temperature：≤ 32℃

Cooling water pressure：0.2～0.4Mpa
Air inlet temperature：≤ 45℃
Regenerated gas volume：3～5%

Technical parameter

Model	Capacity (Nm^3/min)	Air connection	Power (KW)	Cooling water circulation (Nm^3/h)	Power supply (V/HZ)	Weight (kg)	Dimensions（mm）		
							L	W	H
GLE15ZH	1.5	ZG1"	0.5	Air Cooled	220/50 380/50	295	1000	750	1450
GLE26ZH	2.6	ZG1"	0.6	Air Cooled	220/50 380/50	350	1000	800	1650
GLE38ZH	3.8	ZG1½"	0.9	Air Cooled	220/50 380/50	485	1200	1000	1550
GLE65ZH	6.5	DN50	1.1	Air Cooled	220/50 380/50	655	1200	1000	2000
GLE110ZH	11	DN65	2.2	Air Cooled	220/50 380/50	750	1450	1200	2050
GLE170HZ	17	DN80	3.0	3	380/50	950	1700	1200	2150
GLE230HZ	23	DN80	3.7	3.5	380/50	1220	1750	1800	2150
GLE350HZ	35	DN100	5.6	6	380/50	1460	1650	2000	2500
GLE450HZ	45	DN125	7.9	7.4	380/50	1980	2000	2600	2700
GLE550HZ	55	DN125	9.4	8	380/50	2500	2500	1900	2750
GLE650HZ	65	DN125	11.3	10	380/50	2950	2550	1900	2800
GLE850HZ	85	DN150	15.0	12	380/50	3550	2650	1900	2900
GLE1000HZ	110	DN150	18.8	14	380/50	4200	2700	2600	3000
GLE1500HZ	150	DN200	30	18	380/50	7690	3200	2950	3000
GLE2000HZ	200	DN200	38	24	380/50	8900	3000	2800	3200

High Efficiency Degreaser
For Compressed Air

High-efficiency compressed air oil remover takes microfiber a the main material, adopts centrifugal separation, purification and fine filtration for three-stage purification, removes oil, water and dust in compressed air, and obtains clean and dry compressed air, the filtration precision can reach 0.01 micron,and the amount of residual oil is less than 0.1mg/m^3.

Intake pressure: 0.2 ~ 1.0Mpa
Intake temperature: 5 ~ 65℃
Initial pressure drop: ≤ 0.007Mpa
Filtration aperture: 5μm
Water removal rate: ≥ 99%
Outlet air oil content: ≤ 0.01ppm

Technical parameter

Model	Capacity (Nm$_3$/min)	Air connection	Discharge caliber	Dimensions（mm）		
				A	B	H
GS15GR	1.5	ZG1"	ZG½"	195	133	646
GS24GR	2.4	ZG1"	ZG½"	270	133	660
GS38GR	3.8	ZG1-1/2"	ZG½"	270	133	660
GS65GR	6.5	ZG1"-1/2"	ZG½"	300	159	1300
GS110GR	11	ZG2"	ZG½"	360	219	1555
GS160GR	16	DN80	ZG½"	425	273	1555
GS230GR	23	DN80	ZG½"	425	273	1555
GS350GR	35	DN80	ZG½"	425	273	1795
GS450GR	45	DN100	ZG½"	460	325	1665
GS550GR	55	DN125	ZG½"	529	377	1750
GS600GR	60	DN125	ZG½"	730	529	1750
GS800GR	80	DN150	ZG½"	730	529	1950
GS1000GR	100	DN200	ZG½"	730	529	2100
GS1500GR	150	DN200	ZG½"	840	630	2150
GS2000GR	200	DN200	ZG½"	840	630	2435

Compressed Air
Pipeline Filters

Compressed Air Pipeline Filter Introduction

Poor air quality raises production costs

After the air is compressed, the moisture and oil contained in the air will condense into liquid droplets and mix with dust particles to form acidic sludge.which will cause damage to the air pipeline network, air using equipment, and the quality of the end products. The immediate consequences are: longer downtime, increased material downtime. reduced productivity and product quality, with potential impacts on product reputation in the marketplace and environmental protection. **Only a complete air quality solution can reduce production costs and bring high returns.**

High returns from high quality precision filter

Duct filters are part of the air quality solution. A wide range of high-quality filters developed by Geso to eliminate possible contamination in the production process provide high precision filtration with only a small pressure drop which can significantly reduce the energy consumption of compressed air systems.

Pipeline Filter Features

01. Compact appearance, small installation space

02. Simple monitoring for safe operation

03. Pressurized dismantling with audible alarm

04. Drain valve can be manually relieved

05. The filter element can be quickly disassembled and assembled for easy maintenance.

06. Differential pressure gauge (differential pressure indicator indicates when it is time to change the filter cartridge.

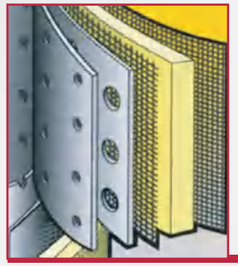
07. Economic operation, low pressure drop to save energy

Flow correction for filters with different operating pressures

Use pressure MPa	0.1	0.2	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.6
Correction factor β	0.38	0.53	0.65	0.85	1	1.13	1.25	1.36	1.46	1.51

Pipeline filter cartridge structure

9 Class Separation filter



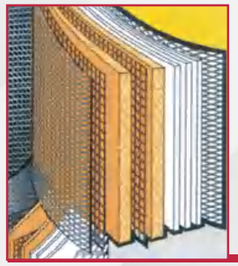
Two-stage filtration

Stage I: two stainless orifice tubes for 10 micron mechanical separation
Stage 2: Deep fiber media filters out 3 micron solid and liquid particles

Suitable for removing large quantities of liquids and 3 micron size agglomerates (5ppm w/w maximum residual oil content).

7 Class Main line filter

Main line filter: inner/outer cartridges are corrosion-resistant



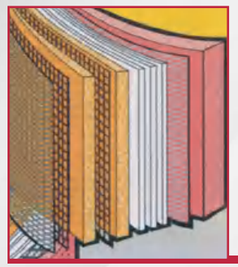
Two-stage filtration

Stage 1: Alternating layers of fiber media and media screens to filter out larger particles
Stage 2: Multi-layer epoxy resin bonded hybrid fiber media to agglomerate oil mist and filter out solid particles.

Suitable for removing large quantities of liquids and l micron size agglomerates (l.0 ppm w/w maximum residual oil content).

5 Class High-efficiency degreasing filters

High-efficiency degreasing filters:corrosion-resistant inner/outer with closed foam sleeves coated on the outside.



Two-stage filtration

Stage 1: Multi-layer fiber media and media screen to filter out larger particles andpre-filter the air before it enters the 2nd stage of filtration.
Stage 2: Multi-layer bonded hybrid fiber media to filter out fine agglomerates.

Suitable for filtration of large quantities of liquids and 0.0l micron size agglomerates (0.0lppm w/w maximum residual oil content)

3 Class Ultra-high-efficiency degreasing filters

Ultra-high-efficiency degreasing filters: corrosion-resistant **inner/outer cartridges, external coated closed-cell foam sleeves**

Two-stage filtration

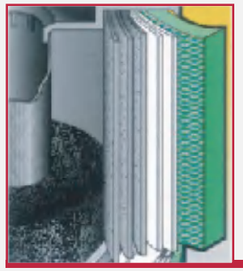
Stage 1: Alternating layers of fiber media and media screens to filter out larger particles
Stage 2: Multi-layer epoxy resin bonded hybrid fiber media to agglomerate oil mist and filter out solid particles.

Suitable for removing large quantities of liquids and l micron size agglomerates (l.0 ppm w/w maximum residual oil content).

1 Class Degreasing steam filter

Degreasing steam filter: corrosion-resistant inner/outer cartridges, external coated closed foam sleeve.

Two-stage filtration



Stage 1: extremely fine stabilizing layer of activated carbon powder,which filters out most of the oil vapor.
Stare 2: multi-layer fiber media, bonded micro-fine filtration of activated carbon powder, which can filter out residual oil vapor multi-laver fine media to prevent contaminants from migrating, in the rated operating conditions, the design life of up to 1.000 hours.

Suitable for filtering out oil vapors and hydrocarbon vapors that are normally absorbed by activated carbon Filters out solid particles down to 0.01 microns (0.003ppm w/w maximum residual oil content).

Note: Externally coated closed cell foam sleeve to prevent fiber migration.

Compressed Air
Pipeline Filter

Technical parameter

Model	Capacity (Nm^3/min)	Interface Size	Weights (Kg)
BM9/7/5/3/1-001	1.5	ZG3/4 or ZG1"	1.5
BM9/7/5/3/1-002	2.6	ZG1"	1.8
BM9/7/5/3/1-004	4	ZG1.5"	3.5
BM9/7/5/3/1-005	5	ZG1.5"	3.5
BM9/7/5/3/1-007	7	ZG1.5"	4
BM9/7/5/3/1-010	11	ZG2.0"	6
BM9/7/5/3/1-013	13.8	ZG2.0"	6.5
BM9/7/5/3/1-015	17	ZG2.5" or DN65	8.2/26
BM9/7/5/3/1-020	23	ZG2.5" or DN80	9.0/30
BM9/7/5/3/1-025	27	DN80	35
BM9/7/5/3/1-035	35	DN80	65
BM9/7/5/3/1-040	45	DN100	67
BM9/7/5/3/1-055	55	DN125	80
BM9/7/5/3/1-066	66	DN125	90
BM9/7/5/3/1-088	88	DN125	145
BM9/7/5/3/1-110	110	DN150	180

The Company Has The Right To Change The Design For The Continuous Improvement Of The Products,and The Parameters Will Be Changed Without Prior Notice.

Note:

1 Description of optional equipment codes

- Automatic Drainer → Model **D**
- Vifferential Pressure Indicator Gauge → Model **G**
- Differential Pressure Indicator → Model **P**
- Stainless Steel Housing → Model **B**
- Pressure>1.6MPa please specify the required pressure,model number plus H such as 3MPa,1.2m^3/min. model number 9H001/30

2 Filter Replacement

- 9/7/5 class cartridges must be replaced at 6000 hours or annually at regular intervals or when the ifferential pressure indicator is in the red zone (pressure drop of approximately 0.07 MPa) .
- Class 1 activated carbon cartridges must be replaced after 1000 hours of use or when an odor is detected to ensure good filter performance.
- Cartridges used under abnormal conditions are not covered by the quality life warranty.

3 Inlet temperature: 80℃

4 Oversize and special requirement filters accept customization