GANEY 正力精工

S

Superior Single Screw Series

18.5~75KW

1 ENERGY-EFFICIENT

Superior Design Goes for Energy-efficient Pioneer

Ganey to be No.1 energy-efficient air compressor!

No.1 energy-efficient air compressor manufacturer recommended by Technology Ministry

ABOUT US

Renowned as a sizable state-level hi-tech enterprise, Guangdong Ganey Precision Machinery Co., Ltd, specializes in the researching & developing, manufacturing, and distributing the energy-efficient & environment-friendly air compressor. Ganey possess independent Property Right for the Air Ends, and is successively authorized with over 10 pieces of inventive patent from China, U.S., U.K., France, & Japan.

Ganey presently covers scroll, single screw, double screw, two-stage screw, centrifugal product range, and includes the product lines of oil-injected, oil-free, medium-pressure, low-pressure, two-stage high pressure, mining-use & motive area. Ganey persists in the Design Conception of Energy Efficiency, Reliability & Silencing technique, and has been as the Chief Constitutors for several standards in Chinese air-compressor industry. Moreover in 2013, Ganey was as the sole air compressor manufacturer recommended by Ministry of Industry and Information Technology of P.R.C, in the initial Batch of Energy- efficient manufacturer recommended List in General Machinery Industry.

Year2003, honored as one of constitutors in Industrial Standard # JB/T10525-2005, The general-use oil-injected single screw air compressor.

Year2005, honored as the domestic sole screw AC manufacturer In MT950, Safe technical inspection code of the Air compressor used in coal pits.

Year2006, honored as the domestic sole screw AC manufacturer in MT687, Air Compressor used in coal pits.

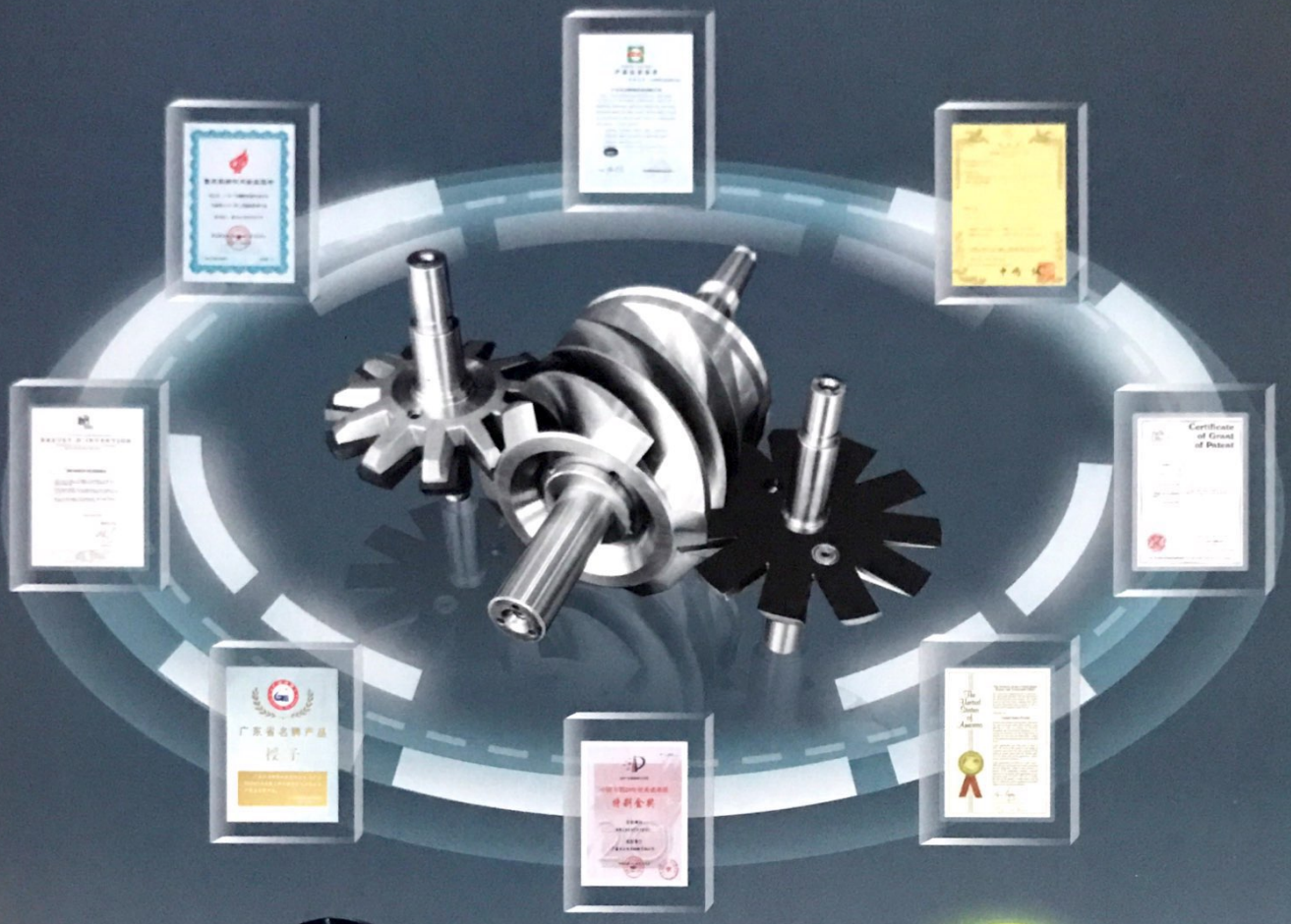
Year2008, honored as the Chief constitutor in Enforcement Regulation of Energy Label in Displacement Air Compressor.

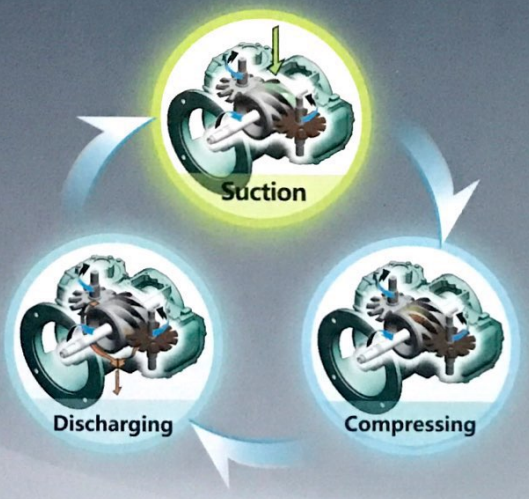
Year2009, honored as one of main constitutors in the revision & accreditation of national standard # GB10525, the general-use oil-injected single screw air compressor.

Year2010, honored as one of constitutors in Industrial Standard, the general-use oil-injected Scroll air compressor.

Silencing, Reliability, Energy-efficient

is from single screw air end & 1st-class system design



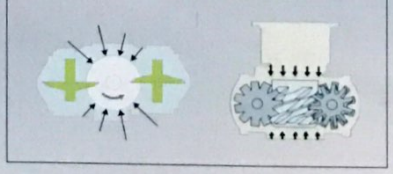


Single screw air end

Apply Ganey exclusive patented technology of Tri-linear meshing, non-equal tooth width, and innovative compressor nozzle, making the bare compressor runs stable, & raising up the service life of the star wheel by 6 times. The volumetric efficiency gets higher up to 98%, by comparatively 10% more efficient. Ganey worldwide takes lead the energy-saving trend!

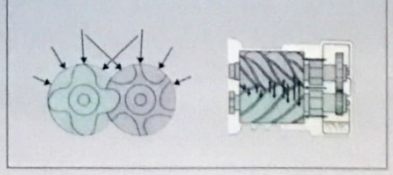
- The invention in China patent ZL99 1 22110.9 ZL00107950.6
- The invention in U.S.A patent US6,398,532B1
- The invention in U.K. patent GB2356021
- The invention in France patent 0013908
- The invention in Japan patent 3807922

Stress Comparison



Single Screw

Radial & Axial screw is evenly stressed.



Double screw

Male & Female rotors' radial & axial is not evenly stressed.

Be innovative for the 1st-Class Energy-efficiency

Unloading Valve

Patentable Technology in larger diameter makes more energy-saving during running, & less shock to the power grid at the starting.

Electric Motor

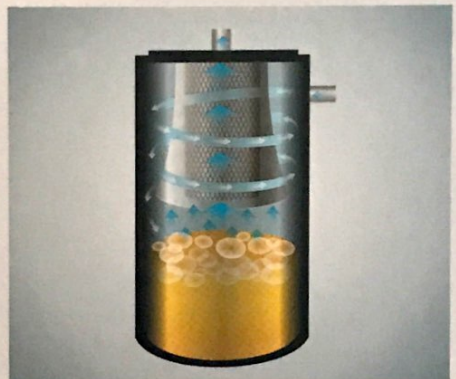
High-efficiency Motor for the air compressor.

Oil Cut-off Valve

Patentable Technology with automatically adjusting the oil on/off & more/less.

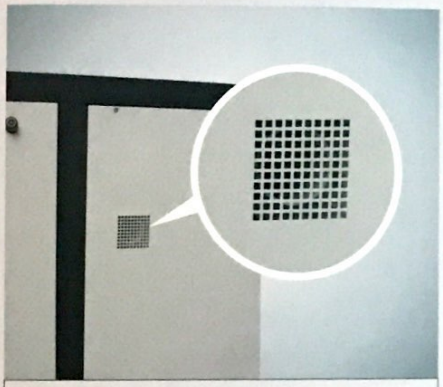
Direct Coupling

The whole Superior Series apply elastic coupler with the transmission efficiency 0.99 VS V-belt's 0.94.



Separate Tank

With special inner design, the compressed air into the tank will be separated by the centrifugal self-rotary, and the preliminary efficiency is up to 99% with the oil-content in the final discharged-air ≤3PPM.

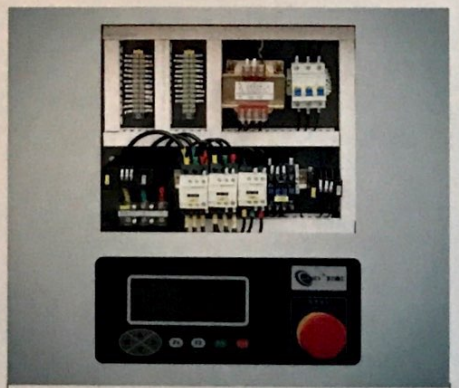


Outside Air-suction

Suction the air from outside with 5-10% efficiency improvement.

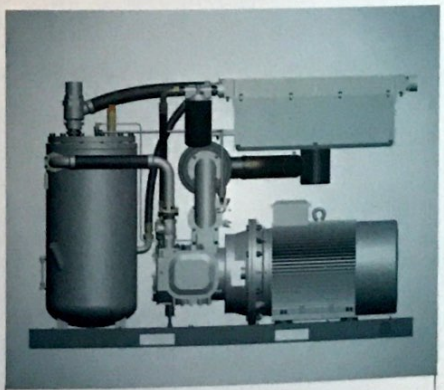
Centralized Controller

The creative patented technology is more reliable for syst



Electrical Controller

World-famous electrical element ensures the system of more reliability, with self-diagnosis & protection. Easy operation makes customers freely set the parameter. The foreseen connectionis to provide the customer with the integrated-control function.



Systematic Layout

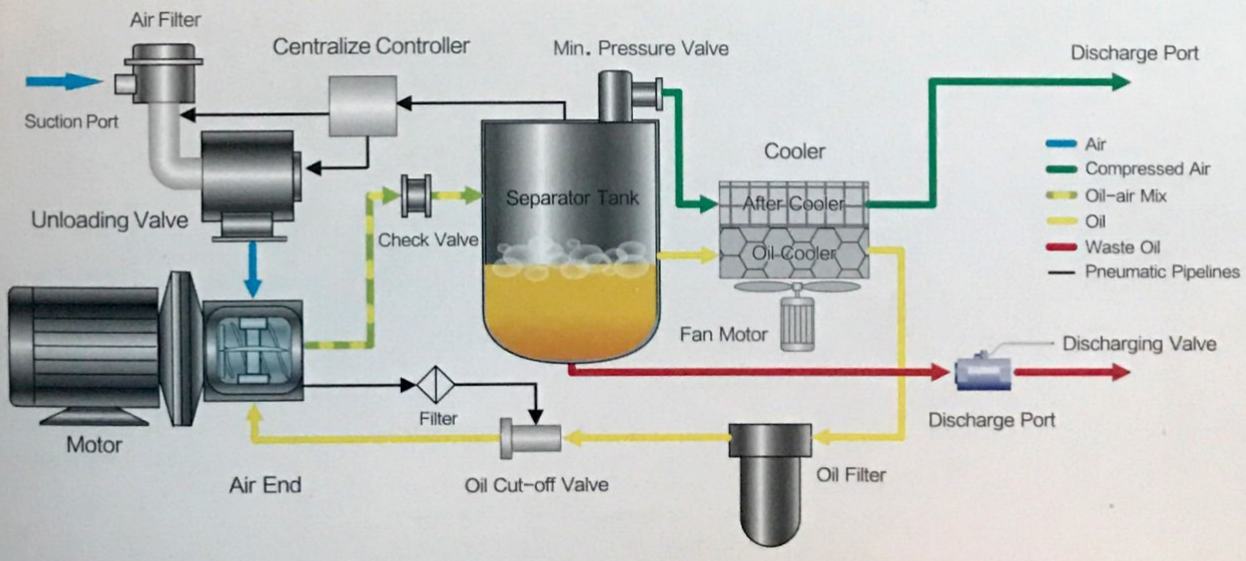
The optimum pipeline layout leads to the minimum pressure loss, the more energy-saving efficiency, & easier maintenance.

Inner Structure

Superior Screw Air-end, Optimum System-design

Superior Screw Series is the industrial 1st-class energy-saving product. The advanced design makes less power consumption.

System Diagram



Ganey, the energy-efficient expert

- Since 1March, 2010, the energy-efficiency label is compulsory in Chinese air compressor market, and any manufacturer selling the air compressor in Mainland market should label the energy-efficiency rating on the product.
- Ganey is the chief constitutor of the national standard # GB 19153-2009 <<The Energy-efficiency Rating for the Displacement-type Air Compressor>.
- Superior Screw Series' Specification & Energy-efficiency Rating should be referred to the verso.

Electricity Consumption Table

Compressor Power	18.5	22	30	37	45	55
Discharging Capacity	3	3.4	5	6.1	7.2	9.8
Energy-efficiency Rating : Input Specific Power Kw/(m³/min); Air-cooled Type						
1st-class	7.4	7.2	7.2	7.2	7.2	6.5
2nd-class (energy-saving)	8.4	8.1	8.1	8.1	8.1	7.3
3rd-class (qualified)	9.5	8.9	8.9	8.9	8.9	8.4
kW/h the electricity-saving of every-hour operation:						
1st-class Vs 3rd-class	6.3	5.8	8.5	10.4	12.2	18.6
2nd-class Vs 3rd-calss	3.3	2.7	4	4.9	5.8	10.8
kW/h; Electricity-saving in one-year operation; 300days /year, 12hours /day						
The first-class compared with the third-class	22680	20808	30600	37332	44064	67032
The second-class compared with the third-class	11880	9792	14400	17568	20736	38808
KW/h; Electricity-saving in 2-year operation; 300days /year, 12hours /day						
The first-class compared with the third-class	45200	41616	61200	74664	88128	134064
The second-class compared with the third-class	23760	19584	28800	35136	41472	77616
Electricity-saving in 2-year operation. RMB; RMB0.8 /Kw/h						
The first-class compared with the third-class	36160	33293	48960	59731	70502	107251
The second-class compared with the third-class	19008	15667	23040	28109	33178	62093

Reliable Use

Oil Filter

- Spin-on Oil Filter is of good sealing, excellent pressure-resistance, high filtration fineness, and easy & fast installation.
- 10μm Filtration Fineness

Air Filter

- Air filter is durable for low pressure-drag, high filtration efficiency, and excellent let-ash rate.

Oil-air Separator

- The Oil-air Separator element is the critical parts for the compressed air quality, and the high-quality element ensures of the compressor in high-efficient operation.
- Select high-quality imported filter material for the element.
- The plicature filter structure narrows the size, also with the low Pressure differential, long-life and high fficiency.
- 3PPM. Oil content in discharging air ≤3ppm

Lubricant Oil

Ganey & the world-famous oil supplier jointly develop the lubricant oil exclusively for the single-screw air compressor.

- Good thermal stability, & excellent aging resistance.
- Good rust prevention, and superb water separation.
- High viscosity index, and better lubricant performance in high pressure & temperature.

Ganey not only provides the energy-saving, reliable, silent compressor products, but also offers the high-quality spare parts, & the in-time scientific after-sales service, to all round protect

- All Ganey genuine spare parts are marked with " GANEY 正力螺工 " & Anti-counterfeiting Code.
- The inferior spare parts lower down product quality, and Ganey originals offer more economical & reliable performance.

We promise to offer an professional training of equipment knowldge , only if you maintain the equipment according to Ganey 's standard and use our original spare parts. We are confident in our technology and products quality, and surly, we will bring you excellent user experience.

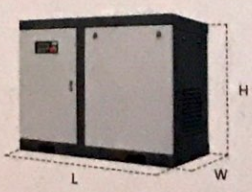
Product Specifications

Model / Item	Sub-model	Discharging Capacity			Discharging Pressure			Noise dB(A)	Motor(Y-△Start) Power(kw/HP)	Connection Diameter	N.W.
		m³/min	L/s	CFM	Mpa	Bar(G)	Psig				
SOGFD18	OG(F)D-3.2/7	3.2	53	113	0.7	7	102	66	18.5/25	G1"	500
	OG(F)D-3.0/8	3.0	50	106	0.8	8	116				
	OG(F)D-2.7/10	2.7	45	95	1.0	10	145				
	OG(F)D-2.3/12.5	2.3	38	81	1.25	12.5	181				
SOGFD22	OG(F)D-3.8/7	3.8	63	134	0.7	7	102	66	22/30	G1"	515
	OG(F)D-3.4/8	3.4	57	120	0.8	8	116				
	OG(F)D-3.1/10	3.1	52	109	1.0	10	145				
	OG(F)D-2.8/12.5	2.8	47	99	1.25	12.5	181				
SOGFD30	OG(F)D-5.3/7	5.3	88	187	0.7	7	102	68	30/40	G1¼"	780
	OG(F)D-5.0/8	5.0	83	177	0.8	8	116				
	OG(F)D-4.2/10	4.2	70	148	1.0	10	145				
	OG(F)D-3.9/12.5	3.9	65	138	1.25	12.5	181				
SOGFD37	OG(F)D-6.4/7	6.4	107	226	0.7	7	102	68	37/50	G1¼"	800
	OG(F)D-6.1/8	6.1	102	215	0.8	8	116				
	OG(F)D-5.3/10	5.3	88	187	1.0	10	145				
	OG(F)D-4.7/12.5	4.7	78	166	1.25	12.5	181				
SOGFD45	OG(F)D-8.0/7	8.0	133	283	0.7	7	102	70	45/60	G2"	1170
	OG(F)D-7.2/8	7.2	120	254	0.8	8	116				
	OG(F)D-6.3/10	6.3	105	222	1.0	10	145				
	OG(F)D-6/12.5	6.0	100	212	1.25	12.5	181				
SOGFD55	OG(F)D-10.3/7	10.3	172	364	0.7	7	102	70	55/75	G2"	1200
	OG(F)D-9.6/8	9.6	160	339	0.8	8	116				
	OG(F)D-8.6/10	8.6	143	304	1.0	10	145				
	OG(F)D-7.2/12.5	7.2	120	254	1.25	12.5	181				
SOGFD75	OG(F)D-13.6/7	13.6	227	480	0.7	7	102	74	75/100	G2"	1875
	OG(F)D-12.6/8	12.6	210	445	0.8	8	116				
	OG(F)D-11.5/10	11.5	192	406	1.0	10	145				
	OG(F)D-9.5/12.5	9.5	158	335	1.25	12.5	181				

1、The Discharging Capacity results accords with GB3853-83 (eqvISO1217); The Noise results accords with GB4980-85 (eqvISO2151)

2、"1级" & "2级" mark means the energy-efficiency rating. "能效" mark means the qualified energy-efficiency products.

3、Discharging Temperature ≤Ambient Temperature ± 15℃; Oil content in discharging ≤3ppm



Model	Net Dimension (mm/inch)		
	L	W	H
SOGFD18/22	1450/57.1	650/25.6	1100/43.3
SOGFD30/37	1620/63.8	860/328	1250/49.2
SOGFD45/55	2000/78.7	980/38.6	1400/55.1
SOGFD75	2300/90.6	1220/48.0	1780/70.0

Ganey keeps the right to modify this file without notice.

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