DLOL® COMPRESSOR

MARINE SERIES

MARINE AIR COMPRESSORS

EDITION 2026

Screw 7.5–250 kW · Piston 3.0 MPa starting air · Turn-key systems
dryers / filters / receivers

MARINE COMPRESSOR SYSTEM SOLUTION EXPERT



CLASSIFICATION SOCIETY RULES COVERED

CCS · BV · ABS · RS · DNV · NK · KR · RINA · LR

SHANGHAI SHENGYI COMPRESSOR CO., LTD.
SINCE 1999 · SHANGHAI · CHINA

www.sh-shengyi.com
MARINE · INDUSTRIAL · SYSTEMS

Company Profile

WHO WE ARE

01

Shanghai Shengyi Compressor Co., Ltd. was founded in **1999** at No. 518 Huhua East Road, Huating Industrial Park, Jiading District, Shanghai. Under the **DLOL** brand, the company develops, manufactures, sells and services industrial and marine air compressors.

Marine equipment is our core business. For vessels, offshore engineering and offshore oil & gas platforms we supply marine screw compressors **(GRF-10C–GRF-350C, 7.5–250 kW)**, marine piston compressors **(ZFC / VFC / WFC, 3.0 MPa starting air)** and dryers / filters / receivers as turn-key packages — designed, built and surveyed to classification-society rules.

1999	3000+	10+	30
Founded Shanghai Jiading	Marine installations in service	Classification societies covered	Marine models 7.5–250 kW

Three core capabilities CAPABILITIES

R&D In-house

In-house compressor-element and system design. Holds **12 patents**, including a design patent for the marine water-cooled screw air compressor (No. 8074130), and operates a factory energy-efficiency laboratory verified to GB 19153-2019 Grade 1.

Manufacturing & QA Jiading

The Jiading manufacturing and R&D base handles element assembly and full-unit testing. Every unit is performance-, leak- and pressure-tested before dispatch, and ships with material certificates, test reports and class survey documents; third-party witnessed testing can be arranged.

Systems & approvals Class

ISO 9001 / ISO 14001 / ISO 45001 certified, with **CCS** type approval, **BV Mode II** recognition, **ABS** Product Design Assessment (PDA), **RS** type approval and **ECM** European type approval. A recognised National High-Tech Enterprise (Certificate No. GR202431000556).

Scope of supply & services ONE POINT OF RESPONSIBILITY

Complete units
SCREW · PISTON

18 marine screw models and 3 marine piston series — air- or water-cooled, belt or direct driven, as required by the duty.

System package
SKID-MOUNTED

Dryers, fine filters and air receivers selected against dew point and ISO 8573-1 class, delivered as one skid.

Spares & parts
LIFETIME

Genuine parts held in long-term supply, with worldwide after-sales support and documented service intervals.

Technical service
ENGINEERING

Selection calculation, technical design and project documentation — drawings for class approval included.

Marine applications ON BOARD

Main & auxiliary engine starting air
30–40 bar · piston ZFC / VFC / WFC

Instrument & control air
7–8 bar · screw + desiccant dryer + filters

Deck machinery & air tools
7–10 bar · screw + refrigerated dryer

Nitrogen feed air
8–13 bar · large-flow water-cooled direct driven

Platform process air
7–13 bar · skid-integrated packages

Emergency & breathing air
30–40 bar · SCBA / EEBD charging



Jiading assembly hall — unit build and final test



GRF-270C installation on board, engine room



Huating Industrial Park manufacturing base, Shanghai

Honors & Qualifications

APPROVALS & CERTIFICATIONS

02

Shengyi holds **CCS** type approval, **BV** Mode II, **ABS** Product Design Assessment (PDA), **RS** type approval and **CE** European approval, and is certified to ISO 9001 / 14001 / 45001. Recognised as a National High-Tech Enterprise in 2024 with 12 patents held, the company can design, build, test and submit drawings to IACS member society rules.

CCS Type Approval · BV Mode II · ABS PDA · RS Type Approval · ECM European Approval · ISO 9001 · ISO 14001 · ISO 45001 · National High-Tech Enterprise

Certifications & approvals

TYPE APPROVAL · SYSTEM CERTIFICATES



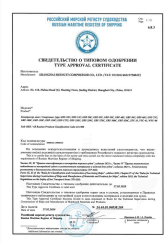
CCS Type Approval
SH25PTB00062.01 · 2025-06 – 2030-06



BV Mode II Recognition
SWS.W.II/131026/B.0 · valid to 2029-03-22



ABS Product Design Assessment
26-0499803-PDA · 2026-09 – 2031-09



RS Type Approval
RMRS rules · Russian Maritime Register



European Type Approval
0K240515.CPEDO51 · EU Machinery Directive



Quality Management System
GB/T 19001-2016 / ISO 9001:2015



Environmental Management System
GB/T 24001 / ISO 14001



Occupational Health & Safety
GB/T 45001 / ISO 45001



NATIONAL HIGH-TECH ENTERPRISE

GR202431000556

Jointly approved by the Shanghai Municipal Science & Technology Commission, Shanghai Municipal Finance Bureau and Shanghai Tax Service of SAT. The company holds **12 patents** (8 utility models, 4 designs) and operates a factory energy-efficiency laboratory verified to GB 19153-2019 Grade 1.

Classification society rule coverage

IACS MEMBERS

CCS · BV · ABS · RS · DNV · NK · KR · RINA · LR

Machines can be designed, built, tested and submitted for approval to the rules of IACS member classification societies. The certification scope of each order is as agreed in its technical agreement. Original certificates, type approval letters and class survey documents are available on request.

Full Range at a Glance

18 SCREW · 3 PISTON · TURN-KEY

03

Three product lines, two cooling methods and two drive types — **18 marine screw models**, **3 marine piston series** and a complete package range, spanning engine-room auxiliary air through to offshore-platform main air supply.

Marine screw compressors 18 MODELS

7.5–250 kW · 0.5–40 m³/min · 8 / 10 / 12.5 bar

BELT · AIR-COOLED — 7.5–45 kW

GRF-10C · GRF-15C · GRF-20C · GRF-25C
GRF-30C · GRF-40C · GRF-50C · GRF-60C

Capacity 0.5–7.6 m³/min @ 8 bar · outlet 3/4″ – 1 1/4″ · 8 models

DIRECT · AIR-COOLED — 55–110 kW

GRF-75C · GRF-100C · GRF-120C · GRF-150C

Capacity 5.5–19.1 m³/min @ 8 bar · outlet DN50 – DN65 · 4 models

BELT · WATER-COOLED — 22–45 kW

GRF-30C · GRF-40C · GRF-50C · GRF-60C

Capacity 2.5–7.6 m³/min @ 8 bar · outlet DN40 · 4 models

DIRECT · WATER-COOLED — 55–250 kW

GRF-75C · GRF-100C · GRF-120C · GRF-150C
GRF-175C · GRF-220C · GRF-250C
GRF-270C · GRF-300C · GRF-350C

Capacity 6.5–40.0 m³/min @ 8 bar · outlet DN50 – DN100 · 10 models

Marine piston compressors 3 SERIES · 7 RATINGS

3.0 MPa starting air · 14.5–120 m³/h · 4–22 kW

ZFC-33 — ZFC SERIES

CAPACITY
14.5 / 22.0 m³/h

MOTOR POWER
4 / 5.5 kW

SPEED
1500 r/min

WEIGHT
243 / 265 kg

DIMENSIONS
1215×520×637 mm

VFC-43 — VFC SERIES

CAPACITY
30.0 / 44.0 m³/h

MOTOR POWER
7.5 / 11 kW

SPEED
1500 r/min

WEIGHT
325 / 450 kg

DIMENSIONS
1215×520×637 / 1500×800×1100 mm

WFC-90 — WFC SERIES

CAPACITY
60 / 96 / 120 m³/h

MOTOR POWER
15 / 18.5 / 22 kW

SPEED
1460 r/min

WEIGHT
450 / 650 kg

DIMENSIONS
1500×800×1100 / 1600×900×1100 mm

Turn-key system package AIR TREATMENT

Dew point +3 to −70 °C · ISO 8573-1 · one skid

Air receiver
AIR RECEIVER
Sized on free-air delivery, buffering the system pressure. Internal anti-corrosion coating; safety valve, pressure gauge and automatic drain as standard.
Built to class rules

Refrigerated dryer
REFRIGERATED DRYER
For general work air and engine-room duty where a +3 to +20 °C pressure dew point is sufficient at the lowest running cost.
Dew point +3 to +20 °C

Desiccant dryer
DESICCANT DRYER
For instrument air and high-cleanliness duties; regenerated by purge or heatless cycling for a stable, very low dew point.
Dew point −40 to −70 °C

Fine filters
FINE FILTERS
Graded coalescing and particulate filtration — oil aerosol, dust and odour removal, with activated-carbon and sterile options.
Classified to ISO 8573-1

Capacities quoted at 8 bar; the same models are rated at 10 and 12.5 bar with proportionally lower flow. Full data, dimensions and weights on the technical data pages that follow. All screw models are available air- or water-cooled, belt or direct driven — selection is made against the ship's duty profile and class requirements.

Technical Data · Air-Cooled

MARINE SCREW · 7.5–110 KW

04

Model Series	Pressure bar	Capacity m³/min	Capacity m³/h	Capacity CFM	Power kW	Weight kg	Outlet Outlet	Dimensions L×W×H mm
BELT DRIVEN · AIR-COOLED 7.5–45 kW								
GRF-10C	8–15	0.5–1.1	30–66	17.7–38.8	7.5	320	3/4″	1100×800×1000
GRF-15C	8–15	0.8–1.6	48–96	28.3–56.5	11	320	3/4″	1100×800×1000
GRF-20C	8–15	1.3–2.4	78–144	45.9–84.8	15	350	3/4″	1100×800×1000
GRF-25C	8–15	1.6–2.8	96–168	56.5–98.9	18.5	550	G1″	1280×1000×1150
GRF-30C	8–15	2.0–3.4	120–204	70.6–120.1	22	600	G1″	1500×1100×1350
GRF-40C	8–15	2.8–5.0	168–300	98.9–176.6	30	750	G1″	1500×1100×1350
GRF-50C	8–15	3.5–6.4	210–384	123.6–226.0	37	850	G1 1/4″	1500×1100×1350
GRF-60C	8–15	4.5–7.6	270–456	158.9–268.4	45	900	G1 1/4″	1500×1100×1350
DIRECT DRIVEN · AIR-COOLED 55–110 kW								
GRF-75C	8–15	5.5–9.5	330–570	194.2–335.5	55	1700	DN50	1750×1250×1520
GRF-100C	8–15	7.5–12.4	450–744	264.9–437.9	75	1900	DN50	1750×1250×1520
GRF-120C	8–15	9.0–15.3	540–918	317.8–540.7	90	2250	DN65	2250×1330×1650
GRF-150C	8–15	12.5–19.1	750–1146	441.4–674.5	110	2350	DN65	2250×1330×1650



Belt driven · air-cooled — GRF-10C to GRF-60C



Direct driven skid — GRF-75C and above

Notes ① Capacities are measured at standard conditions (suction 20 °C, 0.1 MPa abs., 0 % RH), tolerance ±5 %. ② Air-cooled units require no seawater system; water-cooled versions of the same models differ slightly in capacity, weight and dimensions — see next page. ③ Discharge pressure range 8–15 bar; typical duty points 12.5 / 10 / 8 bar; 15 bar on request, to be agreed in the technical agreement. ④ Weights and dimensions refer to the skid-mounted unit, excluding dryers and receivers; actual weight shall prevail. ⑤ Parameters are for reference only; the company reserves the right to change them without notice.

Air-cooled units need no seawater system and install freely in the engine room or on deck; 55 kW and above are direct driven with no belt losses. All 12 air-cooled models are also available water-cooled — see next page.

Technical Data · Water-Cooled

MARINE SCREW · 22–250 KW

05

Model Series	Pressure bar	Capacity m³/min	Capacity m³/h	Capacity CFM	Power kW	Weight kg	Outlet DN	Dimensions L×W×H mm
BELT DRIVEN · WATER-COOLED 22–45 kW								
GRF-30C	12.5	2.5	150	88.3	22	850	DN40	1700×1100×1350
GRF-30C	10	3.1	186	109.5	22	850	DN40	
GRF-30C	8	3.4	204	120.1	22	850	DN40	
GRF-40C	12.5	3.3	198	116.5	30	900	DN40	1700×1100×1350
GRF-40C	10	3.8	228	134.2	30	900	DN40	
GRF-40C	8	5.0	300	176.6	30	900	DN40	
GRF-50C	12.5	4.5	270	158.9	37	950	DN40	1700×1100×1350
GRF-50C	10	5.6	336	197.8	37	950	DN40	
GRF-50C	8	6.4	384	226.0	37	950	DN40	
GRF-60C	12.5	5.2	312	183.6	45	980	DN40	1700×1100×1350
GRF-60C	10	6.2	372	219.0	45	980	DN40	
GRF-60C	8	7.6	456	268.4	45	980	DN40	
DIRECT DRIVEN · WATER-COOLED 55–250 kW								
GRF-75C	12.5	6.5	390	229.5	55	1250	DN50	2200×1400×1410
GRF-75C	10	8.5	510	300.2	55	1250	DN50	
GRF-75C	8	9.3	558	328.4	55	1250	DN50	
GRF-100C	12.5	8.9	534	314.3	75	1350	DN50	2200×1400×1410
GRF-100C	10	9.5	570	335.5	75	1350	DN50	
GRF-100C	8	12.4	744	437.9	75	1350	DN50	
GRF-120C	12.5	10.8	648	381.4	90	1850	DN65	2200×1400×1410
GRF-120C	10	13.0	780	459.1	90	1850	DN65	
GRF-120C	8	15.0	900	529.7	90	1850	DN65	
GRF-150C	12.5	14.0	840	494.4	110	2150	DN65	2200×1400×1410
GRF-150C	10	15.0	900	529.7	110	2150	DN65	
GRF-150C	8	19.3	1158	681.6	110	2150	DN65	
GRF-175C	12.5	17.5	1050	618.0	132	2800	DN80	2500×1550×1690
GRF-175C	10	19.5	1170	688.6	132	2800	DN80	
GRF-175C	8	22.5	1350	794.6	132	2800	DN80	
GRF-220C	12.5	21.2	1272	748.7	160	3000	DN80	2500×1550×1690
GRF-220C	10	24.5	1470	865.2	160	3000	DN80	
GRF-220C	8	26.7	1602	942.9	160	3000	DN80	
GRF-250C	12.5	21.2	1272	748.7	185	3200	DN80	2500×1550×1690
GRF-250C	10	26.7	1602	942.9	185	3200	DN80	
GRF-250C	8	30.0	1800	1059.4	185	3200	DN80	
GRF-270C	12.5	26.7	1602	942.9	200	3500	DN100	2800×2000×1831
GRF-270C	10	29.0	1740	1024.1	200	3500	DN100	
GRF-270C	8	32.5	1950	1147.7	200	3500	DN100	
GRF-300C	12.5	28.8	1728	1017.1	220	3800	DN100	2800×2000×1831
GRF-300C	10	32.2	1932	1137.1	220	3800	DN100	
GRF-300C	8	37.5	2250	1324.3	220	3800	DN100	
GRF-350C	12.5	31.6	1896	1115.9	250	4000	DN100	2800×2000×1831
GRF-350C	10	37.5	2250	1324.3	250	4000	DN100	
GRF-350C	8	40.0	2400	1412.6	250	4000	DN100	

Notes — ① Capacities are measured at standard conditions (suction 20 °C, 0.1 MPa abs., 0 % RH), tolerance ±5 %. ② This table covers the complete water-cooled range (belt driven 22–45 kW, direct driven 55–250 kW); air-cooled configurations of the same models are also available, with slightly different capacity, weight and dimensions. ③ Standard discharge pressures are 12.5 / 10 / 8 bar; up to 15 bar can be supplied on request, to be agreed in the order technical agreement. ④ Weights and dimensions refer to the skid-mounted unit, excluding dryers and receivers; actual weight shall prevail. ⑤ Parameters are for reference only; the company reserves the right to change them without notice.

Piston Compressors & Packages

3.0 MPA STARTING AIR · TURN-KEY

06

A screw machine excels at continuous, medium-pressure, high-flow duty; a piston machine at high pressure, intermittent, low flow — exactly what engine starting air demands above 30 bar, with the highest reliability on board.

Marine piston · 3.0 MPa starting air

Z / V / W · SINGLE / TWO / THREE-CYLINDER

Model Series	Capacity m^3/h	Pressure MPa	Motor power kW	Speed r/min	Weight kg	Dimensions L×W×H mm
ZFC-33	14.5	3.0	4	1500	243	1215×520×637
ZFC-33	22.0	3.0	5.5	1500	265	1215×520×637
VFC-43	30.0	3.0	7.5	1500	325	1215×520×637
VFC-43	44.0	3.0	11	1500	450	1500×800×1100
WFC-90	60.0	3.0	15	1460	450	1500×800×1100
WFC-90	96.0	3.0	18.5	1460	600	1600×900×1100
WFC-90	120.0	3.0	22	1460	650	1600×900×1100

Turn-key system package

AIR TREATMENT

Air does more than compress. Cooling, separation, storage, drying and filtration each decide the final air quality: dryers, fine filters and receivers are selected against the required pressure dew point (+3 / −20 / −40 / −70 °C) and ISO 8573-1 cleanliness, delivered as one skid with a single point of responsibility on board.



Starting air
30–40 bar · piston ZFC / VFC / WFC

Instrument air
7–8 bar · screw + desiccant dryer + filters

Working air
7–10 bar · screw + refrigerated dryer

Nitrogen feed
8–13 bar · large-flow water-cooled direct driven

Deck service air
7–10 bar · small belt / medium direct driven

Platform air
7–13 bar · skid-integrated packages

Notes — ① Piston capacities are stated in m^3/h and pressures in MPa a different basis from the screw range; the figures are not directly comparable. ② Z / V / W denote one- / two- / three-cylinder arrangements; motor power and capacity combinations can be selected against the required bottle-filling time. ③ Dedicated solutions are available for blackout recovery charging, water-mist firefighting and breathing-air charging (SCBA / EEBD). ④ Circuit pressures listed above are industry-typical ranges; the owner's specification and classification-society rules govern. ⑤ Parameters are for reference only; the company reserves the right to change them without notice.

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MANUFACTURING BASE

Shanghai Jiading

R&D and unit assembly

ABOUT THIS CATALOGUE

Shanghai Shengyi Compressor Co., Ltd. · Marine Air Compressor Catalogue Edition 2026 · English edition
Models covered: marine screw compressors GRF-10C–GRF-350C; marine piston compressors ZFC / VFC / WFC

BRAND

DLOL — the proprietary brand of Shanghai Shengyi Compressor Co., Ltd.
Marine series: air- / water-cooled · belt / direct driven · screw / piston · turn-key systems

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