

# DIESEL to AIR SOLUTION

SCREW AIR COMPRESSORS



**POWERink**  
Power Systems  
*Power Link the World*

# AIR COMPRESSOR

## DRIVEN BY DIESEL ENGINE

### OVERVIEW

Our diesel driven screw air compressors' main features are: strong power, stable performance, efficiency and environmental friendliness. From stationary units to portable sets, it is all designed to provide our clients with a range of options to satisfy different application needs.

The maximum reach that PowerLink Air Compressors can reach is up to 30 Bars, with a power of 297kW. Alongside with an easy operation system, the machine can be started with a push of a button. Soundproofing techniques have been adopted to reduce the noise to the lowest possible to keep disturbance to a minimum.

### APPLICATION



Rental



Mining



Factory



Outdoor  
Constructions



Port



# AVAILABLE TYPES

Working pressure: 5~24Bar

Air delivery: 60~1400CFM

Pressure vessel standard: ASME, DIR, GB

## SPIRIT TYPE (SMALL)



<b>Air delivery:</b>	60-200CFM
<b>Working pressure:</b>	7 Bar, 8 Bar, 10 Bar
<b>Engine brand:</b>	KUBOTA, POWERLINK

## EAGLE TYPE (MIDDLE)



<b>Air delivery:</b>	200-850CFM
<b>Working pressure:</b>	7-14 Bar
<b>Engine brand:</b>	DEUTZ, CUMMINS

## HEAVY TYPE (BIG)



<b>Air delivery:</b>	730-1400CFM
<b>Working pressure:</b>	8-24 Bar
<b>Engine brand:</b>	CAT, CUMMINS



# AIR COMPRESSOR

60~1400CFM

Reliable. Powerful. Durable.



# FEATURES

## EXCELLENT SAFETY PERFORMANCE

### Information Security

- Monitor the operational parameters in real time.
- Multiple data display, monitor, warning and shutdown functions.
- Operational Safety.
- Protection covers for radiator and high-speed rotating parts and high-temperature cloth for the heat pipe.
- Low water level protection of Radiator.
- Battery isolator switch prevent sudden starting up during maintenance.
- Air-oil separator and air filter alerts for periodic maintenance.
- Advanced Waterproof and Dustproof Design.
- Rainproof and Dustproof design for the control cabinet.

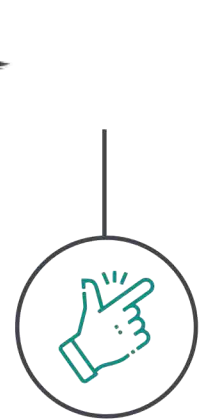
## OPERATION FRIENDLY

### Personalized Design

- Reliable automatic functions make operation simple and unattended operation possible;
- Real-time monitoring can be achieved on the microprocessor in control system;
- Starting up and fault automatic alarm device.
- Multiple languages are optional.
- Emergency stop button is convenient under emergency or overhaul circumstance.
- Multiple warning and shutdown protection functions.
- Convenient refueling water device;
- Large fuel tank ensures at least 8+ hours continuous running under full load.
- The inlet pipe is equipped with a fuel check valve and electronic fuel pump;
- Battery isolator switch, fuel pump, fuel gauge, folder, and control cabinet are located on the same side to facilitate operation.
- All external parts of unit and internal parts are labelled for safety.

### Easy Maintenance

- Twin screw rotors with less quick-wear parts enable a long service life;
- POWERLINK high-quality synthetic lubricating oil;
- Easily-replaced air-oil separator, double air filter and optional pre-filtering system enables the machine to be used in harsh and dusty environments, such as mining and outdoor works.
- Gull-wing wide openable door structure and removable shutters on the front and rear, ensure the best angle and operational space during maintenance;
- Integrated drain outlet installed at the chassis of unit is convenient for maintenance.
- Ladders available for the larger type air compressors which are convenient for inspection, watering and machine lifting.
- Easy Transportation
- The chassis has dragging functional parts, which are friendly for mine sites, the rental market and other industries.
- Economical size design;
- Double hanger structure can guarantee the lifting center without affecting operation and maintenance space.



# MAIN COMPONENTS



## Germany GHH Air end or equivalent

- ✓ Longer life
- ✓ High volumetric efficiency
- ✓ Low noise
- ✓ High load resistant



## High quality Engine

- ✓ Emission standard up to Tier 3;
- ✓ Integral cylinder design reduces 25% parts than similar equipment;
- ✓ KUBOTA, DEUTZ, CAT, CUMMINS and PowerLink engine available.



## Filter System

- ✓ Two stage air filtrations
- ✓ Remove 99.99% particles above 3 microns
- ✓ Automatic replacement reminder by PLC



## Oil Separator

- ✓ Low oil content in output compressed air (3ppm)
- ✓ Low fuel consumption
- ✓ Low pressure drops
- ✓ Long maintenance cycle
- ✓ Automatic replacement reminder by PLC



## 45 °C environment friendly enlarged Radiator

- ✓ oil-cooled water-cooled side-by-side cooling to achieve even cooling;
- ✓ Unique fin and channel design, good heat dissipation, easy to clean;
- ✓ Low-speed, low-noise axial fan;
- ✓ Vertical exhaust, optimize cooling effect



## PLC Control System

- ✓ Microprocessor control;
- ✓ Monitoring operational parameters in real time;
- ✓ Parameters display, like engine speed, running time and discharge pressure etc;
- ✓ Multiple protections and alarm indicators;
- ✓ Automatic shutdown protection features for safe running.



## Patented and 1-100% displacement friendly pipe system

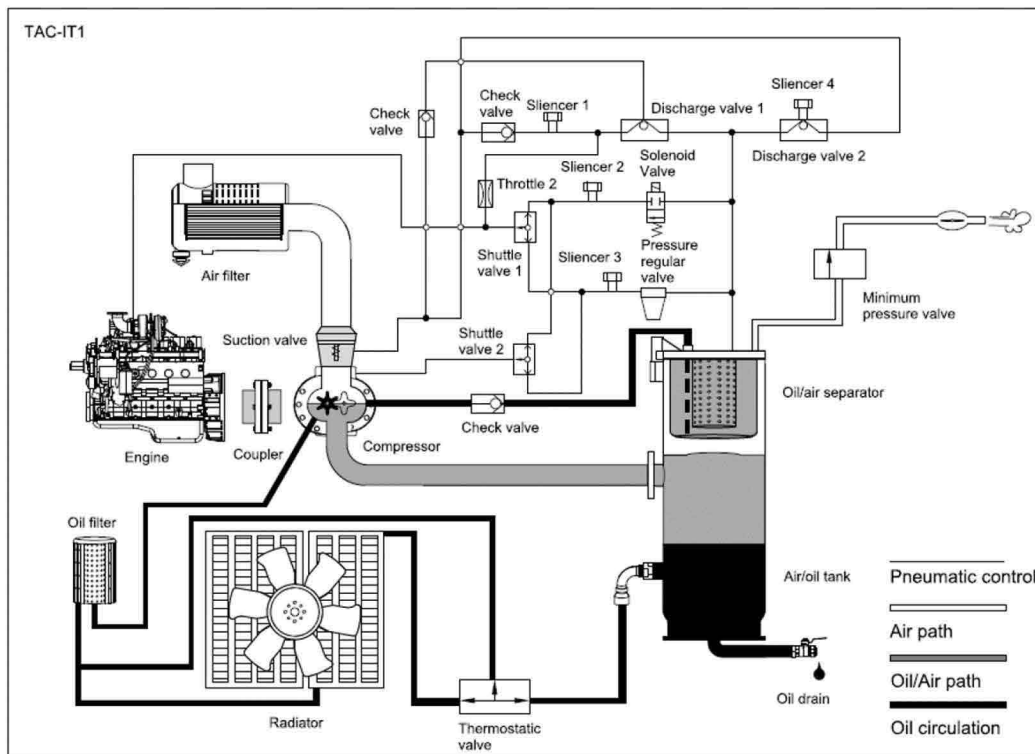
- ✓ Large diameter pipe and short length — minimize internal pressure drop
- ✓ Soft hose —enhances vibration resistance; reduces noise
- ✓ SAE-O ring seals - the most effective seal prevention structure



**Reliable.**  
**Powerful.**  
**Durable.**



# AIR AND OIL PATH SYSTEM



## SPARE PARTS

For compressor

Consumable parts

Air filter

Lubricant oil filter

Oil/air separator

Lubricant oil

Spare parts

Air intake valve, Thermostat Valve,  
Minimum pressure valve, Solenoid valve

Seal rings

For engine

Consumable parts

Air filter

Engine oil filter

Engine oil

Fuel filter

# MODELS AVAILABLE

## DR SERIES PORTABLE AIR COMPRESSOR

Rate of flow: 60-200 CFM

Pressure: 7-10 Bar

### DR Series 100-160CFM 8-10 Bar



Model	Flow		Pressure (Bar)	Engine				Control System		Structure Type
	m <sup>3</sup> /min	cu.ft./min		Model	Emission	RPM	KW	Standard	Optional	
DR100-8	2.83	100	8	4D2.3A-C41	Tier2	2600	30	Manual	N/A	Fixed/Small Type
DR120-10	3.3	120	10	4D2.3A-C41	Tier2	2600	30	Manual	N/A	Fixed/Small Type
DR165-8	4.5	160	8	4D2.7A-C54	Tier2	2700	40	Manual	N/A	Fixed/Small Type

## STATIONARY/PORTABLE AIR COMPRESSOR

### DS Series 60-200CFM 7-10 Bar



Model	Flow		Pressure (Bar)	Engine				Control System		Structure Type
	m <sup>3</sup> /min	cu.ft./min		Model	Emission	RPM	KW	Standard	Optional	
DS60-8	1.7	60	8	D722-E3B	Tier3	3600	14.9	Manual	N/A	Small Type
DS80-8	2.3	81	8	D1105-T-E3B	Tier3	3000	18.5	Manual	N/A	Small Type
DS120-10	3.1	110	10	V1505-T-E3B	Tier3	3000	18.5	Manual	N/A	Small Type
DS185-7	5	177	7	V1505-T-E3B	Tier3	3000	33	Manual	N/A	Small Type
DS185-10	4.8	170	10	V2403-M-T-E3B	Tier3	2700	44	Manual	N/A	Small Type
DS200-7	5.5	195	7	V2403-M-T-E3B	Tier3	2701	44	Manual	N/A	Small Type

# MODELS AVAILABLE

## STATIONARY/PORTABLE AIR COMPRESSOR

**Rate of flow:** 200-850 CFM

**Pressure:** 7-14 bar



### DR Series 200-600CFM 8-14 Bar

Model	Flow		Pressure (Bar)	Engine				Control System		Structure Type
	m <sup>3</sup> /min	cu.ft./min		Model	Emission	RPM	KW	Standard	Optional	
DR200-10	5.6	200	10	4DT3.2C-C75	Tier2	2500	55	Manual	PLC	Fixed/Middle Type
DR225-13	6.6	233	13	4DT4.1C-C93	Tier2	2600	68	Manual	PLC	Fixed/Middle Type
DR285-8	8.14	288	8	4DT4.1C-C93	Tier2	2600	68	Manual	PLC	Fixed/Middle Type
DR285-8	8.05	284	8	4DT4.1C-C93	Tier2	2600	68	Manual	PLC	Fixed/Middle Type
DR300-10	8.61	304	10	4BTA3.9-C125	N/A	2200	93	Manual	PLC	Fixed/Middle Type
DR300-13	8.43	298	13	6BTA5.9-C180	N/A	2200	132	Manual	PLC	Fixed/Middle Type
DR375-8	10.6	375	8	4BTA3.9-C125	N/A	2200	93	Manual	PLC	Fixed/Middle Type
DR400-8	11.5	405	8	48TA3.9-C125	N/A	2200	93	Manual	PLC	Fixed/Middle Type
DR400-10	11.4	401	10	6BTA5.9-C180	N/A	2200	132	PLC	Manual	Fixed/Middle Type
DR400-12	11.3	398	12	6BTA5.9-C180	N/A	2200	132	PLC	Manual	Fixed/Middle Type
DR400-14	11.4	401	14	6BTA5.9-C180	N/A	2200	132	PLC	Manual	Fixed/Middle Type
DR480-8	13.7	485	8	6BTA5.9-C180	N/A	2200	132	PLC	Manual	Fixed/Middle Type
DR480-13	13.5	476	13	6BTA5.9-C180	N/A	2200	132	PLC	Manual	Fixed/Middle Type
DR550-10	16.3	576	10	6BTA5.9-C180	N/A	2200	132	PLC	Manual	Fixed/Middle Type
DR550-10	16.3	576	10	6BTA5.9-C180	N/A	2200	132	PLC	Manual	Fixed/Middle Type
DR550-13	16.1	569	13	6CTA8.3-C240	N/A	1900	176	PLC	Manual	Fixed/Middle Type
DR550-13	16.1	569	13	6CTA8.3-C240	N/A	1900	176	PLC	Manual	Fixed/Middle Type
DR600-14	17	601	14	6CTA8.3-C260	N/A	1900	195	PLC	Manual	Fixed/Middle Type

# STATIONARY/PORTABLE AIR COMPRESSOR

## DS Series 200-850CFM 7-13 Bar



Model	Flow		Pressure (Bar)	Engine				Control System		Structure Type
	m <sup>3</sup> /min	cu. ft/min		Model	Emission	RPM	KW	Standard	Optional	
DS200-10	5.7	200	10	V3600-T-E3B	Tier3	2600	63	Manual	PLC	Fixed/Middle Type
DS200-13	5.7	200	13	V3600-T-E38	Tier3	2600	63	Manual	PLC	Fixed/Middle Type
DS285-8	8.1	286	8	V3600-T-E3B	Tier3	2600	63	Manual	PLC	Fixed/Middle Type
DS285-10	8.1	286	10	V3600-T-E3B	Tier3	2600	63	Manual	PLC	Fixed/Middle Type
DS285-13	8	284	13	V3800DI-T-E3B	Tier3	2600	74	Manual	PLC	Fixed/Middle Type
DS375-8	10.3	363	8	V3800DI-T-E3B	Tier3	2600	74	Manual	PLC	Fixed/Middle Type
DS400-8	11.5	404	8	BF4M2012C	Tier2	2200	88	PLC	Manual	Fixed/Middle Type
DS400-13	11.2	396	13	BF4M1013FC	Tier2	2200	125	PLC	Manual	Fixed/Middle Type
DS480-10	13.6	481	10	1106D-E66TA	Tier3	2200	130	PLC	N/A	Fixed/Middle Type
DS480-13	13.5	476	13	1106D-E66TA	Tier3	2200	130	PLC	N/A	Fixed/Middle Type
DS480-10	13.6	481	10	BF4M1013FC	Tier2	2200	125	PLC	Manual	Fixed/Middle Type
DS480-13	13.5	476	13	BF6M1013FC	Tier2	2200	176	PLC	Manual	Fixed/Middle Type
DS550-10	15.3	540	10	BF4M1013FC	Tier2	2200	125	PLC	Manual	Fixed/Middle Type
DS550-13	17	602	13	BF6M1013FC	Tier2	1900	176	PLC	Manual	Fixed/Middle Type
DS700-10	19.8	700	10	BF6M1013FC	Tier2	1900	176	PLC	Manual	Fixed/Middle Type
DS750-8	21.5	760	8	BF6M1013FC	Tier2	1900	176	PLC	Manual	Fixed/Middle Type
DS850-7	24.1	852	7	BF6M1013FC	Tier2	1900	176	PLC	Manual	Fixed/Middle Type

# MODELS AVAILABLE

**STD: Standard o: Optional x: Impossible**

- The dimensions are based on off-standard compressors with running speed of less than or equal to 20km/h; for your purchase of road standard ones. Please consult Powerlink additionally
- The running speed of toad standard compressors is less than or equal to 80km/h

**Notes:**

- The above data is based on standard operating condong as follows
- The pressure vessel of air compressor has obtained the standard authentication
- The above air compressors have been added with engine oil, engine coolant, compressor lubricating oil and a little fuel before shipment.

## STATIONARY/PORTABLE AIR COMPRESSOR

**Rate of flow:** 730-1400CFM

**Pressure:** 8-24bar



### DR Series 840-1165CFM 8-14 Bar

Model	Flow		Pressure (Bar)	Engine				Control System		Structure Type
	m <sup>3</sup> /min	cu.ft./min		Model	Emission	RPM	KW	Standard	Optional	
DR850-13	23.8	841	13	6LTAA8.9-C360	Tier2	1900	250	PLC	Manual	Fixed Type
DR850-13T	23.8	841	13	6LTAA8.9-C360	Tier2	1900	250	PLC	Manual	Mobile/Heavy Type
DR900-10	25.8	912	10	6LTAA8.9-C325	Tier2	2000	230	PLC	Manual	Fixed Type
DR900-10T	25.8	912	10	6LTAA8.9-C325	Tier2	2000	230	PLC	Manual	Mobile/Heavy Type
DR900-12	25.8	912	10	6LTAA8.9-C360	Tier2	2000	256	PLC	Manual	Mobile/Heavy Type
DR900-10	25.7	908	14	6LTAA8.9-C360	Tier2	2000	230	PLC	Manual	Fixed Type
DR900-10	25.7	908	14	6LTAA89-C360	Tier2	2000	230	PLC	Manual	Mobile/Heavy Type
DR1050-8	29.1	1028	8	6LTAA89-C360	Tier2	2000	256	PLC	Manual	Fixed Type
DR1050-8	29.1	1028	8	6LTAA8.9-C360	Tier2	2000	256	PLC	Manual	Mobile/Heavy Type
DR1050-10	29.1	1028	10.3	6LTAA89-C360	Tier2	2000	256	PLC	Manual	Fixed Type
DR1200-8	33	1165	8	6LTAA89-C360	Tier2	1900	250	PLC	Manual	Fixed Type
DR1200-8T	33	1165	8	6LTAA89-C360	Tier2	1900	250	PLC	Manual	Mobile/Heavy Type

## 750-780CFM 17-23 Bar

Model	Flow		Pressure (Bar)	Engine				Control System		Structure Type
	m <sup>3</sup> /min	cu.ft./min		Model	Emission	RPM	KW	Standard	Optional	
DR750-17	21.4	756	17	6LTAA8.9-C360	Tier2	1900	250	PLC	Manual	Fixed Type
DR750-17T	21.4	756	17	6LTAA8.9-C360	Tier2	1900	250	PLC	Manual	Mobile/heavy type
DR780-21	22.1	781	21	6LTAA8.9-C360	Tier2	2000	256	PLC	Manual	Fixed type
DR750-20	20.7	732	20	6LTAA8.9-C360	Tier2	1900	250	PLC	Manual	Fixed type
DR780-23	22	777	23	6LTAA8.9-C360	Tier2	1900	250	PLC	Manual	Fixed type
DR780-23	22	777	23	6LTAA8.9-C360	Tier2	1900	250	PLC	Manual	Mobile/heavy type

## DS Series 840-1400CFM 8-13 Bar

Model	Flow		Pressure (Bar)	Engine				Control System		Structure Type
	m <sup>3</sup> /min	cu.ft./min		Model	Emission	RPM	KW	Standard	Optional	
DS850-13	23.8	841	13	c9 acert t13	Tier3	1800	224	PLC	N/A	Fixed type
DS900-10	25.8	912	10	c9 acert t13	Tier3	1800	224	PLC	N/A	Fixed type
DS1050-8	29.1	1028	8	c9 acert t13	Tier3	1800	224	PLC	N/A	Fixed type
DS1400-8	39	1390	8	c13 acert t13	Tier3	1900	328	PLC	N/A	Fixed type

## 730-1100CFM 20-24 Bar

Model	Flow		Pressure (Bar)	Engine				Control System		Structure Type
	m <sup>3</sup> /min	cu.ft./min		Model	Emission	RPM	KW	Standard	Optional	
DS750-20	20.7	732	20	c9 acert t13	Tier3	1800	224	PLC	N/A	Fixed type
DS1050-24	29.4	1040	24	c13 acert t13	Tier3	1900	328	PLC	N/A	Fixed type
DS1150-24	31.4	1108	24	c15	Tier3	1900	354	PLC	N/A	Fixed type
DS950-24	26.7	943	24	2206C-E13TAG3	Tier3	1800	381	PLC	N/A	Fixed type
DS1050-24	29.4	1039	24	2206C-E13TAG3	Tier3	1800	381	PLC	N/A	Fixed type

# PRODUCT CONFIGURATION

## Standard configuration

Item	Unit	Quantity
Diesel engine	set	1
Air end	set	1
PLC control cabine	set	1
Intake valve	set	1
Oil/air vessel	set	1
Radiator	set	1
Fuel filter	set	1
Air filter	set	1
Oil filter	set	1
Oil/air separator	set	1
Fuel tank	set	1
Muffler	set	1
Battery	set	1
Coupling	set	1

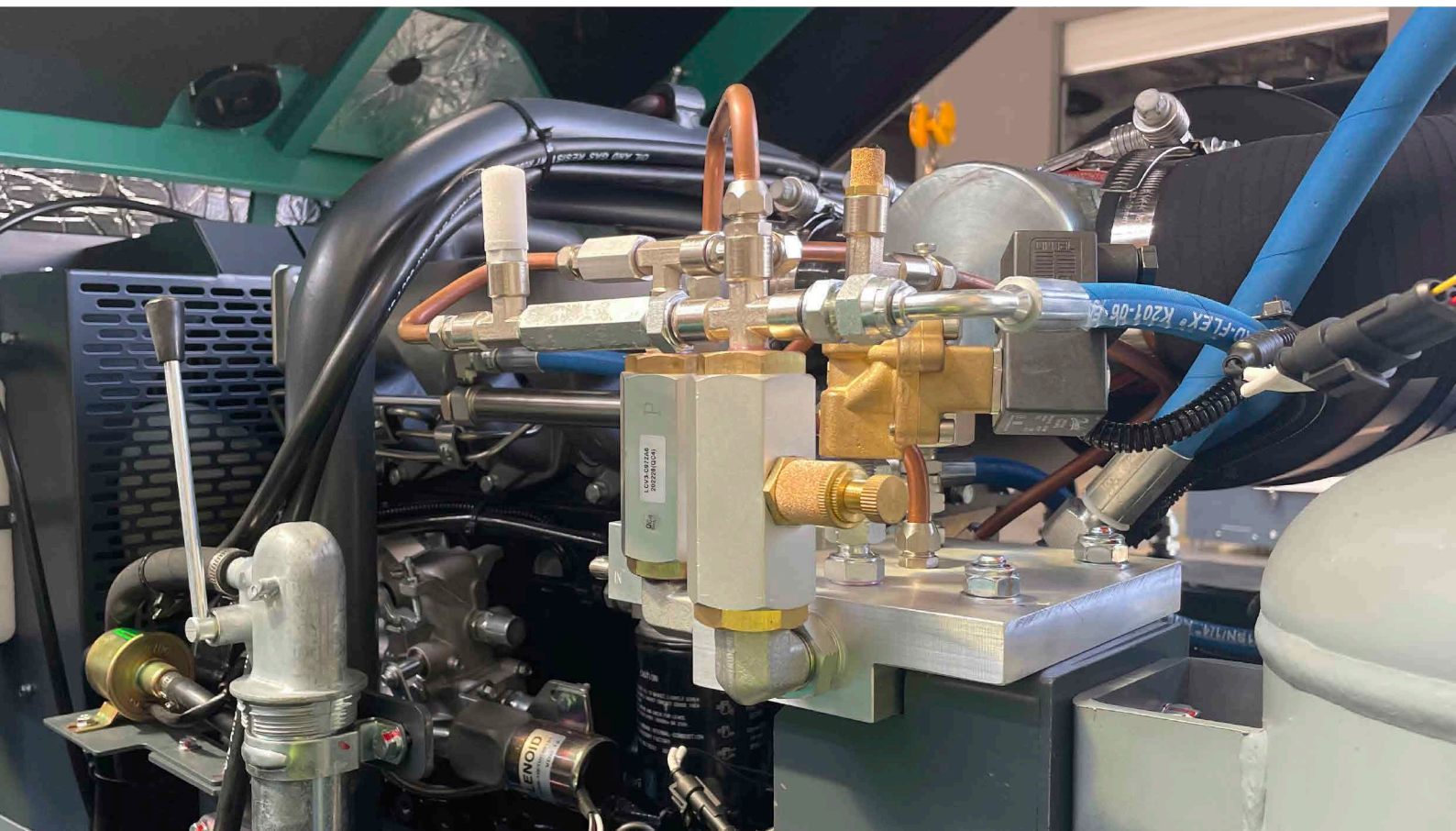
## Optional configuration

Item	Unit	Quantity
Jacket water preheater	set	1
Space heater	set	1
Trailer	set	1

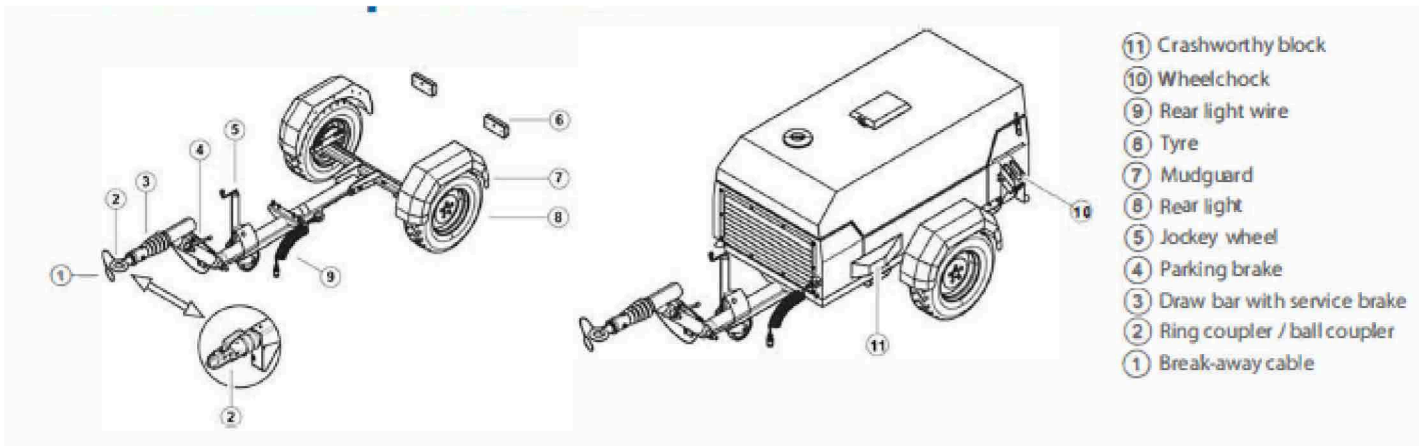
## Optional Trailer

Makes your air compressor portable and mobile

Trailer Type	Configuration
Road standard	Including tail light, tail light connector, tail light wiring harness and outrigger
Off-road standard	Including reflector, rubber sealing plug, outrigger, fender, block and fixed bolt.



# SKETCH MAP OF TRAILER



## Mod

Goose neck type mob with adjustable traction height

## Traction ring

The centroid of sing-axle trailer gen set lies in the front of axle, load of towing ring is 60-120kg.

## Wheel and tyre

Adopt vacuum tyre

## Service braking

Road standard ; Off-road standard

## Safety chain

Compressor Set Weight	Qty. of Safety Chain	Specification
ATM>2.ST	1	
2.ST <ATM< 3.ST	2	
3.5<ATM<4.3T	2	Chain Diameter $\geq 7.1$ mm and the load of chain scission $\geq 6.4T$ ;
4.3<ATM<4.ST	2	Chain Diameter $\geq 9.5$ mm, the load of chain scission $\geq 11.6T$ ;

## Draw bar

Safety Chain Linkage

- The chain won't link with trailer forever through hook;
- Safety chain linkage can independently bear the following external forces without causing transformation,flaw or breakage:
  - Radial drawing force— $1.5 \times 9.81 \times ATM$  (N);
  - Vertical drawing force— $0.5 \times 9.81 \times ATM$  (N);
  - ATM—total weight of trailer and tractor when overloading.
- Parking braking
- No service braking for below 0.75T, mechanical braking for trailer from 0.75T to 3.ST;
- No hand brake for below 0.75T, as for above 0.75T, hanging and semi-hanging trailers are equipped with Parking braking and chock.
- Braking device must ensure reliable braking from up and down when trailer is on the 26% (15°) slope.
- Off-road standard trailer has no service braking.
- Trafficability
- Distance between base and floor is greater than 250mm;
- The angle between axle's front and rear parts and tangent surface and floor is larger than 19°.

# OPTIONAL ENGINE

# T4F EMISSIONS

Our diesel driven screw air compressors' main features are: strong power, stable performance, efficiency and environmental friendliness. From stationary units to portable sets, it is all designed to provide our clients with a range of options to satisfy different application needs.



# SALES AND SERVICE SUPPORT

We successfully delivered 125000 units to worldwide users in 98 countries. PowerLink provides customers with sufficient, fast and high quality product supply and service.



## PREMIUM SUPPORT AND SERVICE ALWAYS AT YOUR SIDE

With two in-house service teams and a nationwide service network, we are capable of providing full on site service and workshop repairs to major city areas and sites across the South Pacific region.

### WE CAN ASSIST YOU WITH:

- Commissioning and testing
- Field service and repairs
- On-site debugging, Workshop service, testing, and repair
- Periodic inspections and planned corrective maintenance schedules
- Major inspections and repairs
- Supply genuine and aftermarket spare parts

# PARTS

## WE PROVIDE ALL HERE AT POWERLINK

PowerLink stock of spare parts, which is packaged and stored in our modernised warehouse, constantly being monitored by our advanced stock management system. With this attention to detail we can ensure you a prompt response to your needs with improved lead times on all our spare parts. PowerLink's on-line parts solution platform allows users the freedom to access the spare parts division in order to provide you with the best solutions in the most efficient manner. The following parts are regularly stocked for your convenience: **Enginemaintenance spare parts, alternator spares, control modules, ATS, genset parts and maintenance tools.** Purchased all of our spare parts directly from the manufactures we deal with to ensure all our parts are **100% genuine.**







**POWERlink**  
Power Systems

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