
**Kaishan Technologies
Rotary Screw Air
Compressor**

**KRSL 100HP
Parts Manual**

PN: 97002023000118

Release in June, 2023 Version: D

(45PSI/208V/230V/460V/60HZ/FS/ASME/UL)

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Service Parts

The following information must be provided for ordering service parts:

1. The serial number of unit must be provided. It will be verified to ensure correct replacement parts are ordered.
2. Service parts must be ordered from closest authorized distributor.
3. Exact part number, quantity and delivery method must be provided.

All service parts must be ordered through nearest authorized distributor. Insist on genuine manufacturer parts only. Failure to do so may void product warranty.

Serial Number

The unit serial number can be found on serial number tag, which is located on the cabinet corner post of the unit. The serial number tag is shown as follows.



Fluid Specification

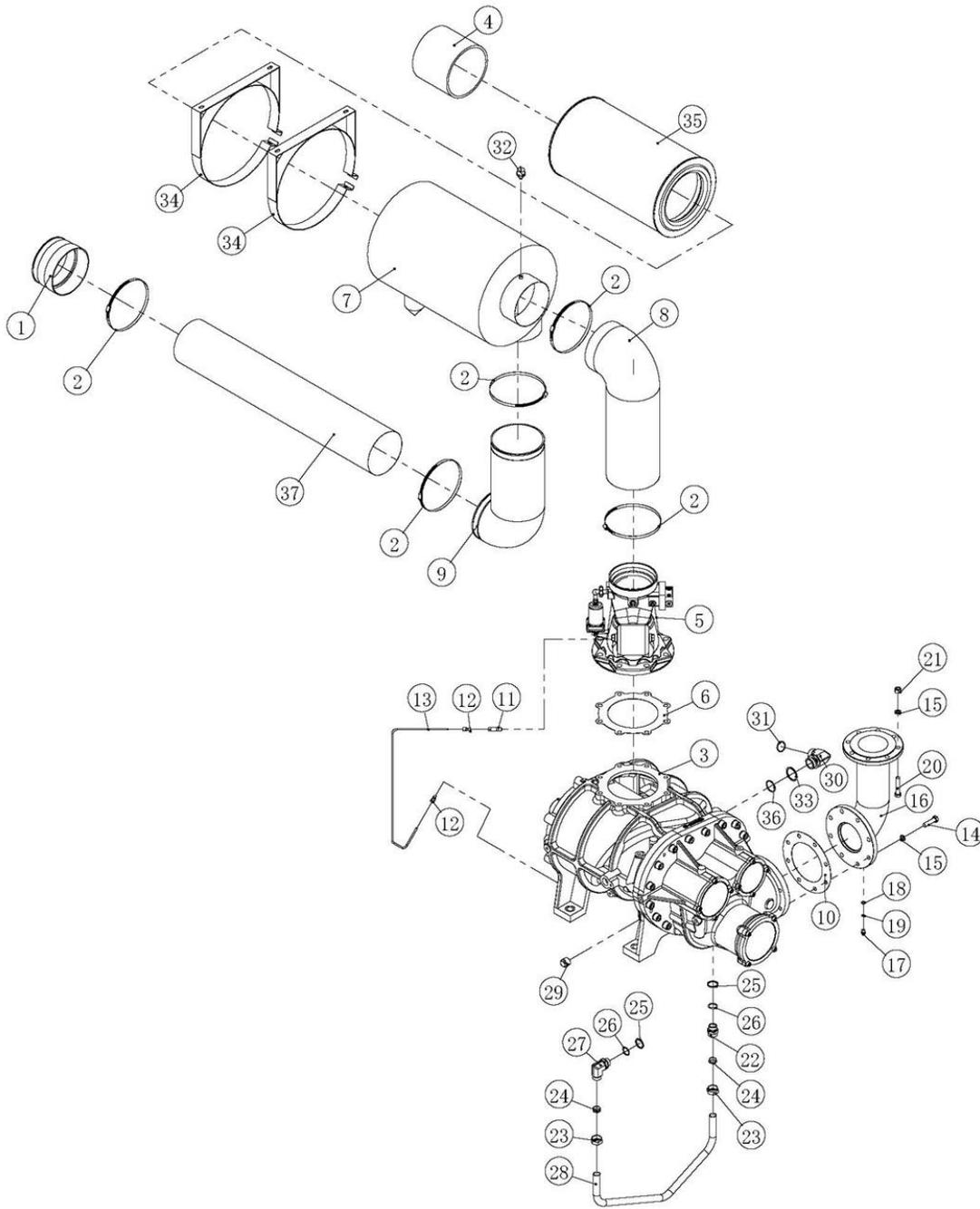
All KRSL Compressors must use KCA recommended fluid for maintenance.

Spare Parts

Recommended spare parts are shown as follows:

ITEM	No.	QTY	PART NUMBER	DESCRIPTION		
1		1	537702 324510	Air filter element		
		1	537702 324520	Air filter safety element		
2		1	537705 331800	Oil filter		
3		1	07704 12520 03	Fluid/air separator primary element		
		1	07704 12520 04	Fluid/air separator secondary element		

Airend and Inlet valve

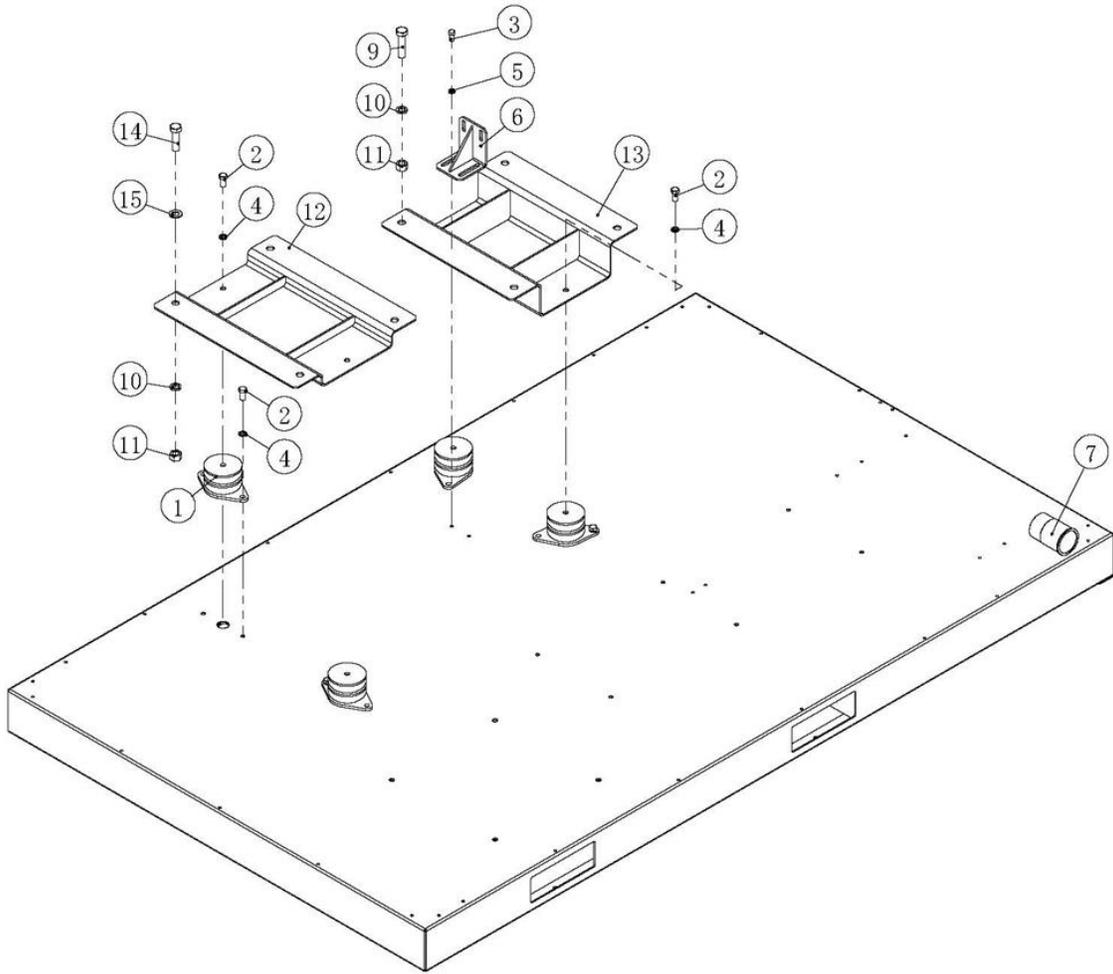


Airend and Inlet valve

NO.	Version	PN	DESCRIPTION	QTY	REMARK
1		02910 20020 81	Flexible pipe connector	1	
2		04401 23225 40	Hoop	5	
3		1830101	Airend	1	
4		537702 324520	Air filter safety element	1	
5		01608 16021 03	Inlet valve	1	
5A*		04002 01602 03	Inlet valve, blowdown valve Assy.	1	Transition plate, blowdown valve, solenoid valve
5B*		02001 00005 00	Inlet valve, air cylinder	1	
6	S02	02214 21029 50	Gasket	1	
7		537702 324500-2	Air filter shell	1	
8		02907 20200 60	Flexible pipe	1	
9		02907 20200 48	Flexible pipe	1	
10		02216 18240 00	Gasket	1	
11		01610 03000 00	Check valve	1	
12		01512 06100 00	Joint	2	
13		92117 01100 00	Oil return pipe	1	
14		01307 16060 00	Bolt	1	M16×60
15		01365 16000 00	Washer	2	16
16	S01	92117 03002 00	Airend discharge pipe	1	
17		18404 03100 00	Plug	1	M12X1.5
18		02201 01215 00	Screw washer	1	
19		02901 00950 10	O ring	1	9.5X1.8
20		01306 16080 00	Bolt	1	M16×80
21		01322 16000 00	Nut	1	M16
22		90031 01001 00	Joint	1	
23		01504 02800 00	Nut	2	G28
24		01514 02800 00	Cutting sleeve	2	28
25		02201 00025 00	Screw washer	2	
26		02901 03000 30	O ring	2	30X3.55
27		90031 01002 00	Adjustable elbow	1	
28	S01	90031 01100 00	Oil injection pipe	1	
29		02103 00025 02	Plug	1	
30		22404 06140 00	Adjustable elbow	1	
31		02901 03870 30	O ring	1	38.7X3.55
32		02809 00102 00	Air filter indicator	1	
33		02201 00040 00	Screw washer	1	
34		537702 324500-1	Air filter hoop	2	
35		537702 324510	Air filter element	1	
36		02901 04500 30	O ring	1	45X3.55
37		92117 01110 00	Stainless steel pipe	1	

*Not shown on the drawing.

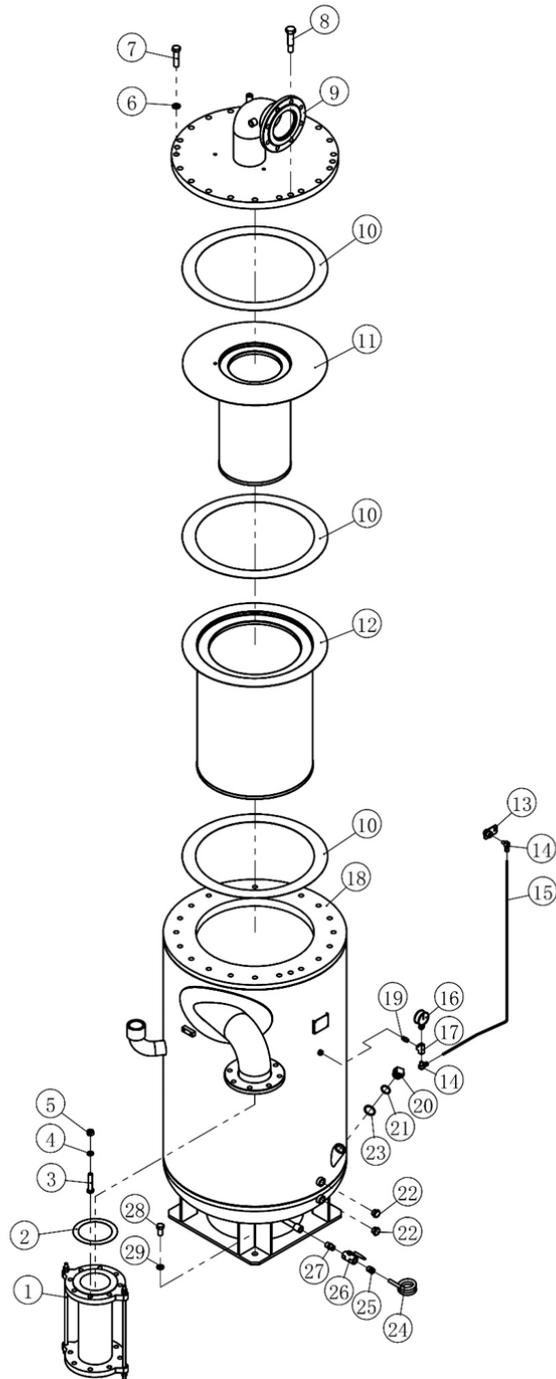
Base Mounting



Base Mounting

NO.	Version	PN	DESCRIPTION	QTY	REMARK
1		02905 00002 00	Absorber	4	
2		01307 14030 00	Bolt	6	M14×30
3		01307 12025 00	Bolt	1	M12×25
4		01365 14000 00	Washer	6	14
5		01365 12000 00	Washer	1	12
6	S02	92217 02001 00	Fixing plate,shipping	1	
7	S01	90217 01200 00	Power supply pipe	1	
8	S01	92117 02010 00	Base	1	
9		01306 20080 00	Bolt	1	M20×80
10		01365 20000 00	Washer	2	20
11		01322 20000 00	Nut	2	M20
12	S01	92117 02004 00	Airend support	1	
13	S01	92117 02003 00	Motor support	1	
14		01307 20070 00	Bolt	1	M20×70
15		01366 20000 00	Washer	1	20

Reservoir

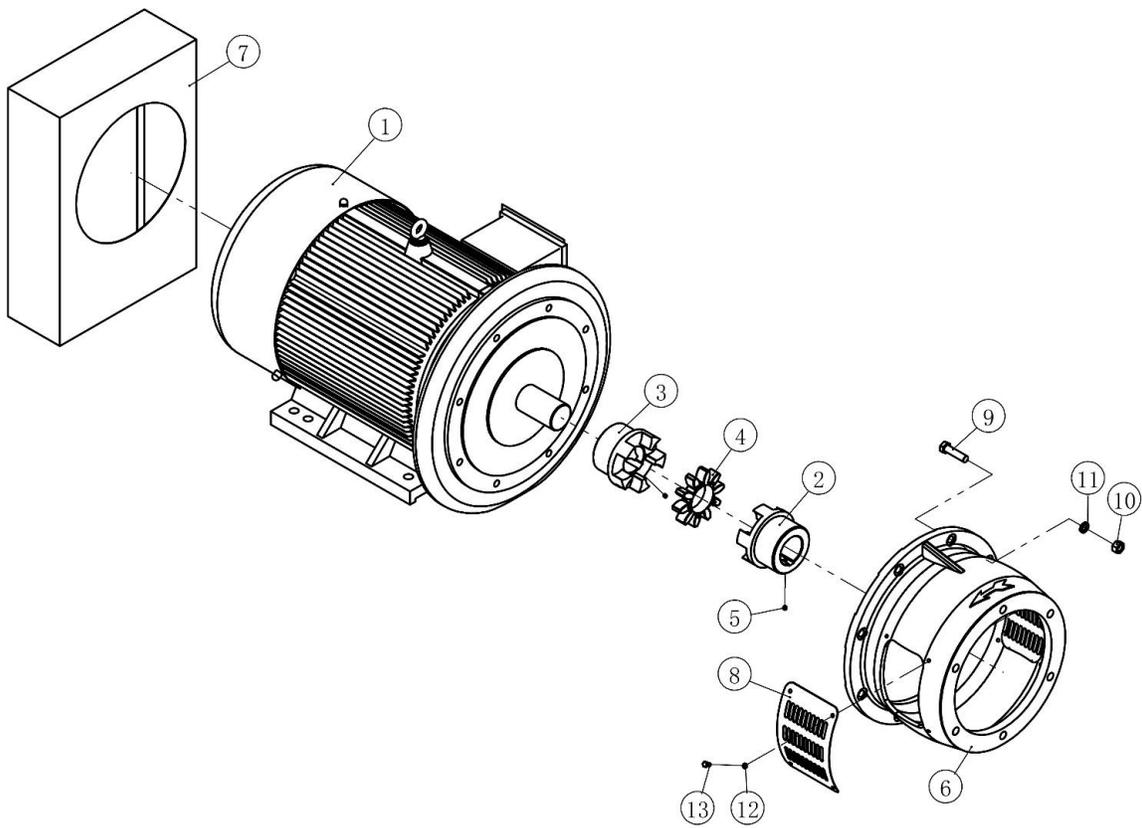


Reservoir

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NO.	Version	PN	DESCRIPTION	QTY	REMARK
1		28404 07004 01	Corrugated pipe	1	
2		02216 12516 06	Gasket	1	
3		01306 16080 00	Bolt	1	M16×80
4		01365 16000 00	Washer	1	16
5		01322 16000 00	Nut	1	M16
6		01365 20000 00	Washer	20	20
7		01306 20080 00	Bolt	20	M20×80
8		821141 103030	Bolt	1	
9	S01	92117 03004 00	Lid	1	
10		02216 31252 01	Gasket	3	
11		07704 12520 04	Air/fluid separator secondly element	1	
12		07704 12520 03	Air/fluid separator primary element	1	
13		90217 03100 00	Pressure sensor seat	1	
14		01513 06130 00	Joint	2	
15	S01	20117 03009 00	Connecting pipe	1	
16		02801 06301 00	pressure gauge	1	
17		11476 07003 00	Tee joint	1	
18	S01	92117 03010 00	Air/fluid separator tank	1	
19		18031 07110 00	Joint	1	
20		13340 03003 00	Plug	1	
21		02901 03350 30	O ring	1	33.5X3.55
22		02102 00020 00	Sight glass	2	
23		02201 03320 00	Screw washer	1	
24		02917 12500 00	Nylon pipe	1	
25		01543 21012 00	Joint	1	
26		01613 01545 00	Ball valve	1	DN15
27		13340 03004 00	Joint	1	
28		01307 18035 00	Bolt	4	M18×35
29		01365 18000 00	Washer	4	18

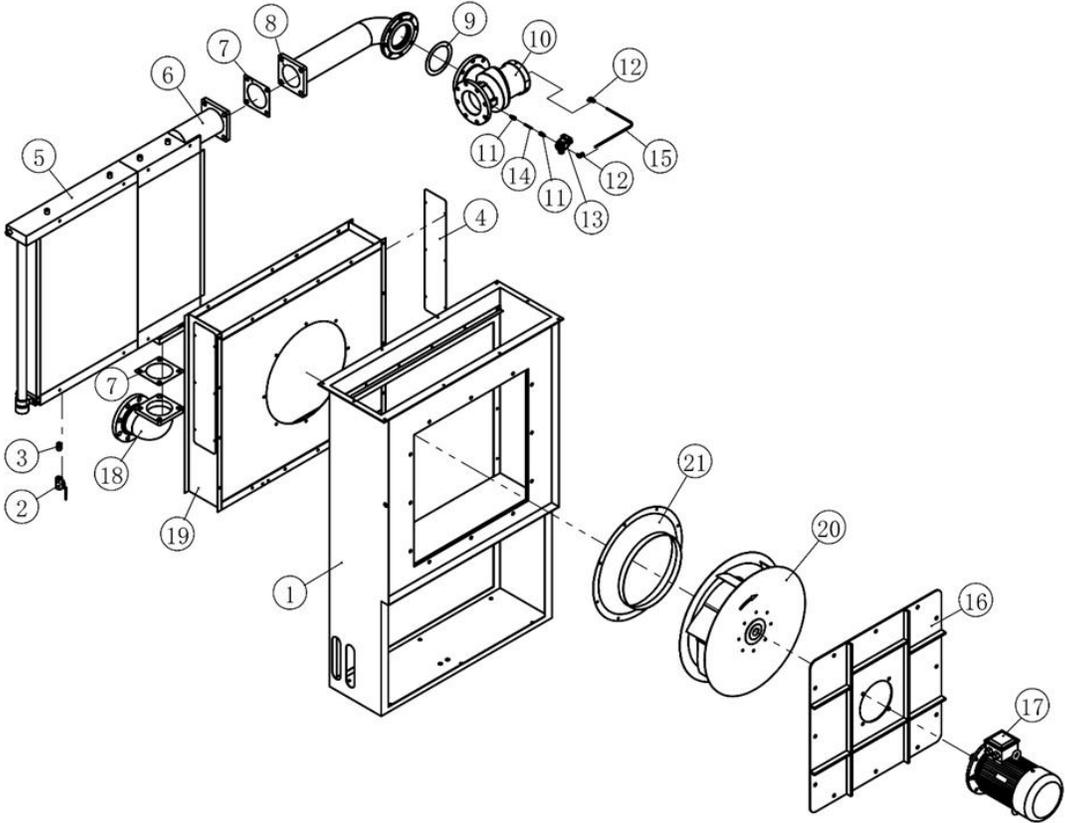
Driving System and Electrical Motor



Driving System and Electrical Motor

NO.	Version	PN	DESCRIPTION	QTY	REMARK
1		64075 36643 28	Motor (WEG)	1	100HP,IE3,230-460V,60HZ
2		01905 07508 00	Half coupling	1	
3		01905 07507 50	Half coupling	1	
4		01908 07500 00	Elastomer	1	
5		01347 08008 00	Set screw	2	M8X8
6		01914 22019 00	Motor adaptor	1	
7		92117 08240 00	Motor air inlet shell	1	
8		01910 19226 01	Coupling guard	2	
9		01306 18070 00	Bolt	8	M18×70
10		01322 18000 00	Nut	8	M18
11		01365 18000 00	Washer	8	18
12		01365 08000 00	Washer	8	8
13		01307 08016 00	Bolt	8	M8×16

Air Cooler



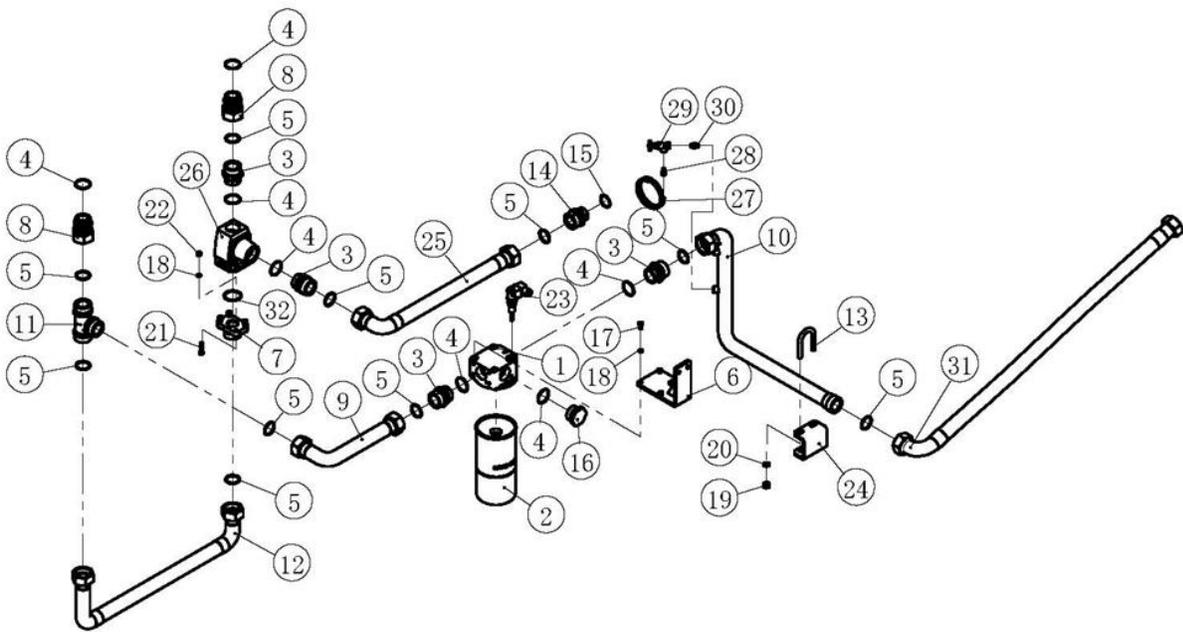
Air Cooler

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NO.	Version	PN	DESCRIPTION	QTY	REMARK
1	S02	92117 05003 00	Centrifugal fan support	1	
2		01613 01500 00	Ball valve	1	DN15
3		91001 05005 00	Joint	1	
4	S02	92217 05006 05	Cooler support mesh plate	2	
5	S02	92217 05010 10	Oil cooler	1	
6	S02	20117 05010 20	After cooler	1	
7		02219 12504 18	Gasket	2	
8	S02	20117 05008 00	Air discharge pipe	1	
9		02216 12516 06	Gasket	1	
10		01612 12502 00	MPV	1	
10A*		04006 01250 00	MPV kit	1	O'ring 145.42x3.53, spring, support ring (2), o'ring 113.67x5.33 (2), o'ring 132.94x3.53 (2), check spring, check valve element
11		01512 06100 00	Joint	2	
12		01513 06100 00	Joint	2	
13		01616 16413 70	Pressure regulating valve	1	
14		28117 12510 00	Air control pipe	1	
15		28117 12511 00	Air control pipe	1	
16	S01	95217 05006 00	Fan motor fixing plate	1	
17		66004 37651 25	WEG motor(4KW)	1	60HZ-208-230/460V- IE3
18	S02	92117 05007 00	Air discharge pipe	1	
19	S01	92117 05001 00	Cooler support	1	
20		07262 63038 10	Wheel	1	
21		07262 63000 20	Collector	1	

*Not shown on the drawing.

Fluid Piping



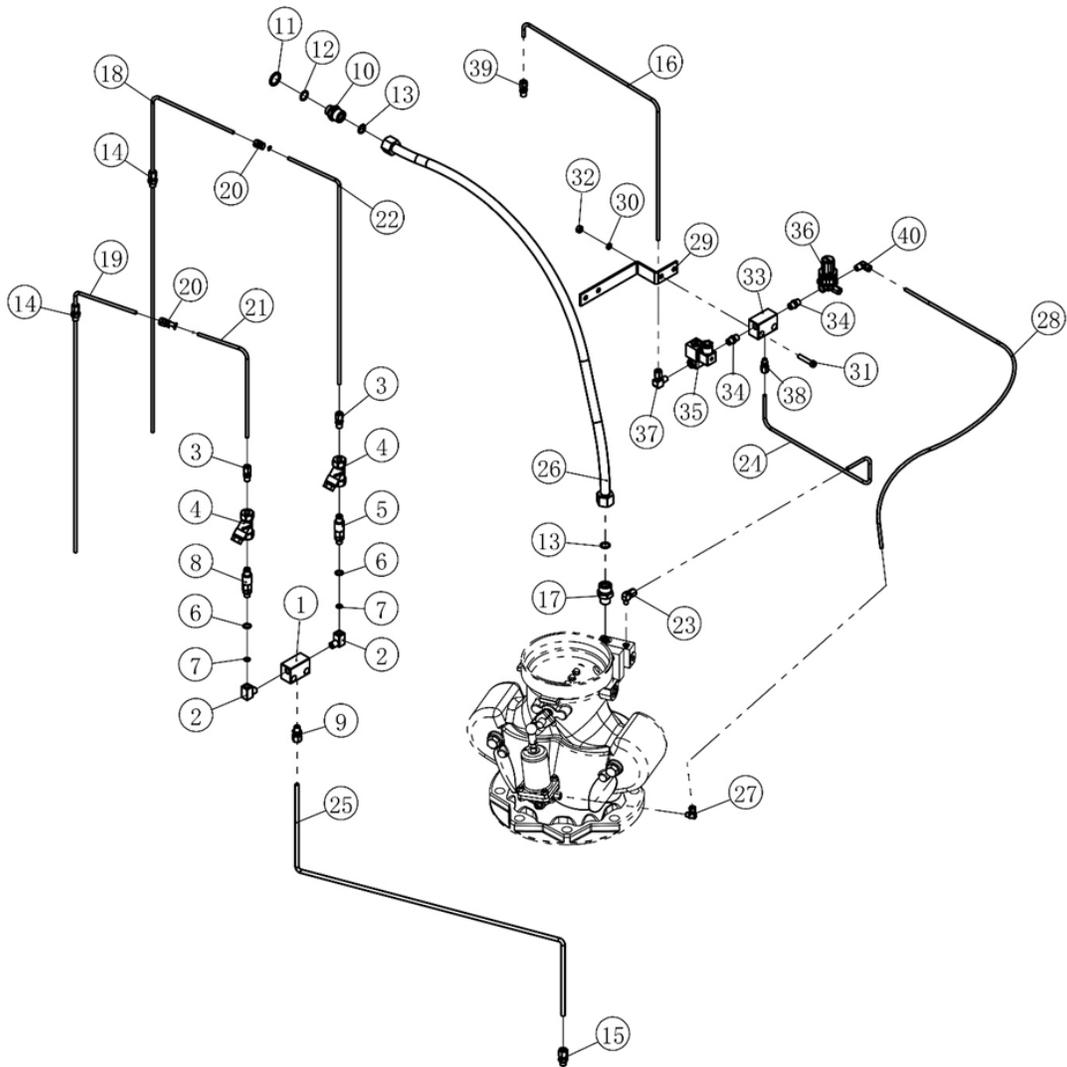
Fluid Piping

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NO.	Version	PN	DESCRIPTION	QTY	REMARK
1		07705 04005 06	Oil filter seat	1	
2		537705 331800	Oil filter	1	
3		90001 07003 00	Joint	4	
4		02901 92400 30	O ring	7	3-924
5		02901 03870 30	O ring	10	38.7X3.55
6	S01	92117 0601 00	Oil filter mounting plate	1	
7		22404 06100 00	Filter joint	1	
8		92001 06004 00	Joint assembly	2	
9	S02	92217 06003 00	Oil pipe	1	Thermal valve to cooler
10	S02	20117 06002 00	Oil pipe	1	Oil filter seat to airend
11		21315 06009 00	Tee joint	1	
12	S02	92217 06004 00	Oil pipe	1	Cooler to filter seat
13		01313 04500 00	U bolt	1	45
14		92001 06003 00	Joint	1	
15		02901 92000 30	O ring	1	3-920
16		92217 06008 00	Plug	1	
17		01307 08016 00	Bolt	3	M8×16
18		01365 08000 00	Washer	7	8
19		01322 12000 00	Nut	2	M12
20		01365 12000 00	Washer	2	12
21		01344 08035 00	Screw	4	M8×35
22		01322 08000 00	Nut	4	M8
23		02809 02000 00	Oil filter indicator	1	
24		93280 06007 00	Oil pipe support	1	
25	S02	92117 06005 00	Oil pipe	1	Tank to thermal valve
26		01611 04016 01	Thermal valve	1	
26A*		04004 04016 00	Thermal valve kit	1	Oring 67x2.65, oring 45x2.65, thermal element
27		92217 06150 00	Oil outlet pipe	1	
28		01511 06100 00	Joint	1	
29		01613 00600 99	Sample valve	1	
30		98018 07011 06	Joint	1	
31	S02	92117 06004 00	Inlet airend pipe	1	
32		02901 04870 30	O ring	1	48.7X3.55

*Not shown on the drawing.

Air Piping

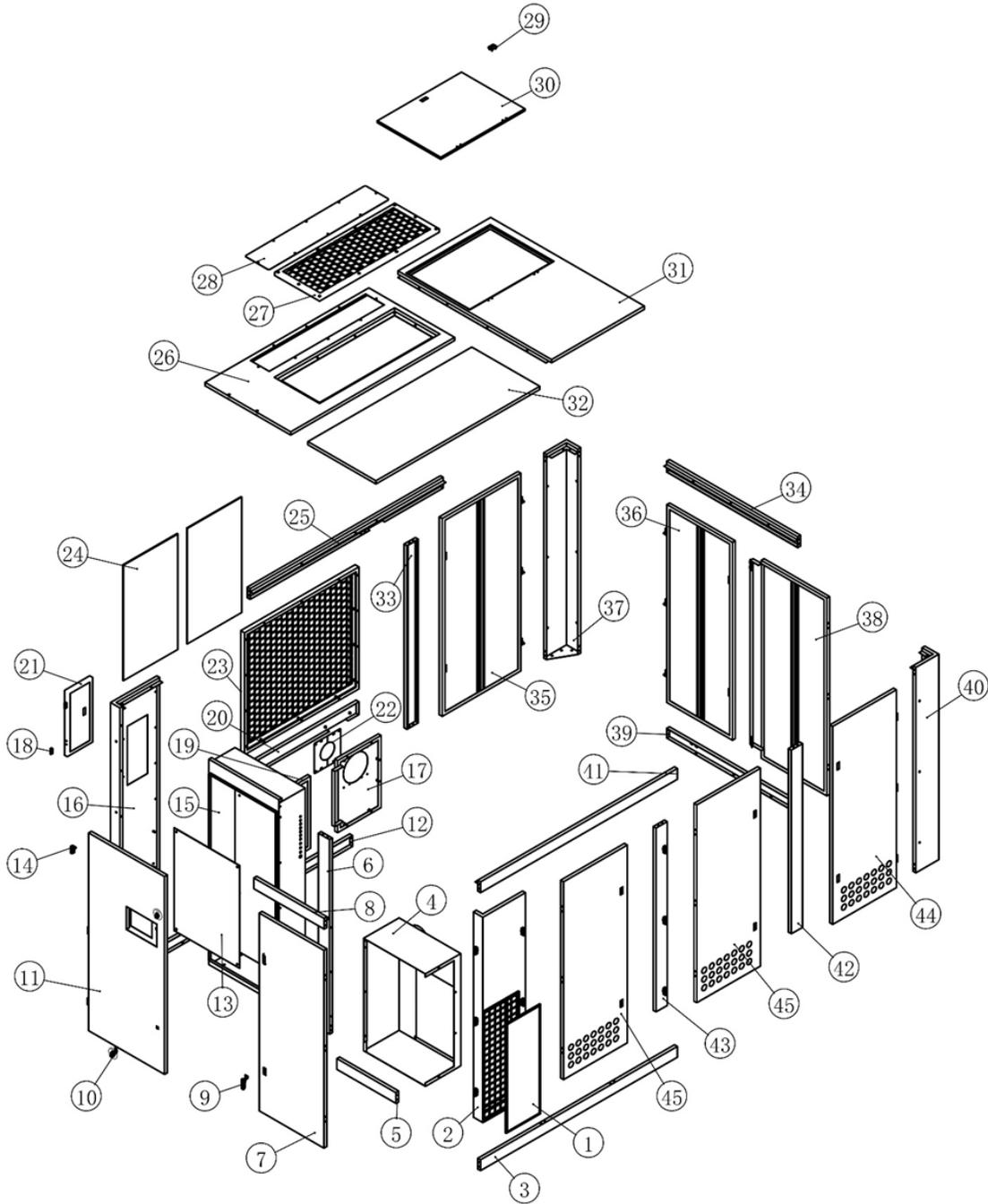


Air Piping

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NO.	Version	PN	DESCRIPTION	QTY	REMARK
1		16315 07005 01	Connecting seat	1	
2		16315 07210 00	Elbow	2	
3		01512 06130 00	Joint	2	
4		07706 00025 00	Y filter	2	
5		01610 01008 00	Visible check valve	1	
6		02201 01215 00	Screw washer	2	
7		02901 00950 10	O ring	2	9.5X1.8
8		01610 01015 02	Visible check valve	1	
9		01512 08130 00	Joint	1	
10		12315 06001 09	Joint	1	
11		02201 00015 00	Screw washer	1	
12		02901 01800 20	O ring	1	18X2.65
13		02901 01600 20	O ring	2	16X2.65
14		92217 03300 00	Joint	2	
15		01523 08670 00	Joint	1	
16		20117 07001 00	Air control pipe	1	
17		13315 03006 00	Joint	1	
18	S01	92117 07007 00	Scavenging pipe	1	
19	S01	20117 07008 00	Scavenging pipe	1	
20		01558 06000 00	Joint	2	
21		20117 07003 00	Scavenging pipe	1	
22		20117 07004 00	Scavenging pipe	1	
23		01513 06100 00	Joint	1	
24		20117 07002 00	Air control pipe	1	
25		92117 07005 00	Scavenging pipe	1	
26		20117 07006 00	Blowdown pipe	1	
27		01517 06100 00	Joint	1	
28		20117 07009 00	Air control hose	1	
29	S01	20117 07100 00	Mounting plate	1	
30		01365 08000 00	Washer	1	8
31		01344 08040 00	Stud	1	M8×40
32		01322 08000 00	Nut	1	M8
33		16315 07005 00	Connecting seat	1	
34		98018 07011 00	Joint	2	
35		01603 31015 00	Solenoid valve	1	12bar,1.5
36		01604 00001 00	Reserve proportion valve	1	
37		01513 06140 00	Joint	1	
38		01512 06100 00	Joint	1	
39		01512 06140 00	Joint	1	
40		01517 06130 00	Joint	1	

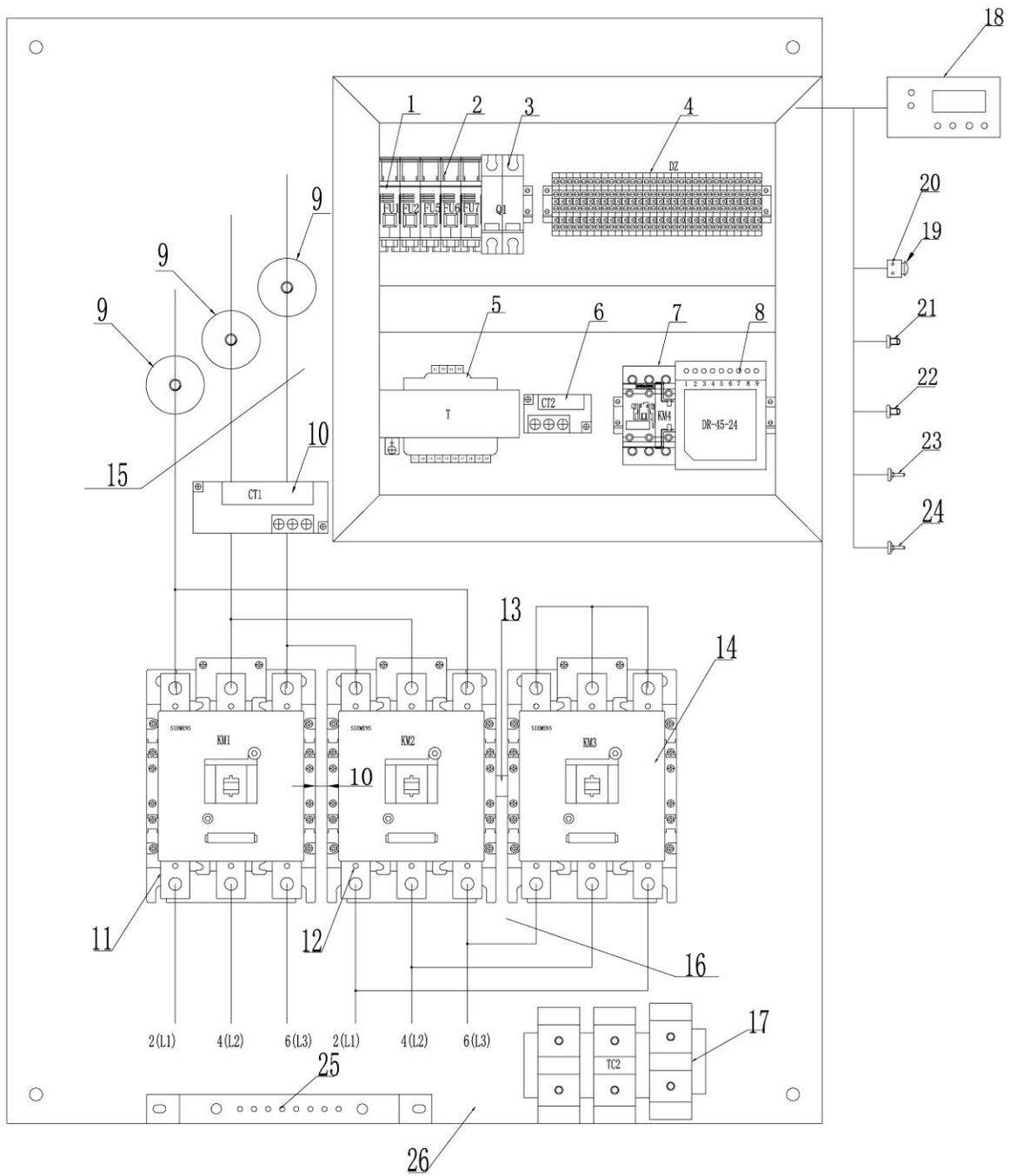
Canopy



Canopy

NO.	Version	PN	DESCRIPTION	QTY	REMARK
1		20117 08430 00	Front filter	1	
2		20117 08004 00	Support	1	
3		20117 08360 00	Beam	1	
4		20117 08200 00	Air box	1	
5		20117 08190 00	Beam	1	
6		20117 08270 00	Support	1	
7		20117 08350 00	Door	1	
8		20117 08140 00	Beam	1	
9		02702 84301 00	Lock	2	
10		02702 71111 03	Lock	2	
11		20117 08230 00	Door	1	
12		20117 08160 00	Beam	1	
13		92217 08320 00	Electrical control board	1	
14		02701 20601 00	Hinge	26	
15		20117 08002 00	Electrical box	1	
16		20117 08003 00	Support	1	
17		20117 08220 00	Door	1	
18		02702 22200 00	Hinge	2	
19		20117 08210 00	Door	1	
20		20117 08170 00	Beam	1	
21		92217 08300 00	Door	1	
22		01561 00125 00	Discharge seal plate	1	
23		20117 08390 00	Cooler mesh plate	1	
24		20117 08420 00	Front filter	2	
25		20117 08008 00	Beam	1	
26		20117 08005 00	Top cover	1	
27		20117 08006 00	Top mesh cover	1	
28		20117 08250 00	Cooler seal cover	1	
29		02702 20901 00	Hinge	1	
30		20117 08490 00	Cover plate	1	
31		20117 08007 00	Top cover	1	
32		20117 08120 00	Top cover	1	
33		20117 08180 00	Support	1	
34		20117 08130 00	Beam	1	
35		20117 08150 00	Door	1	
36		20117 08480 00	Door	1	
37		20117 08100 00	Support	1	
38		20117 08500 00	Door	1	
39		20117 08380 00	Beam	1	
40		20117 08110 00	Support	1	
41		20117 08009 00	Beam	1	
42		20117 08370 00	Support	1	
43		20117 08340 00	Support	1	
44		20117 08330 02	Door	1	
45		20117 08330 01	Door	2	

Electrical Enclosure



Electrical Enclosure

(FS)

NO.	PN	DESCRIPTION	QTY	REMARK
1	02820 00001 00	Fuse block	2	FU1-FU2
2	02820 00001 00	Fuse block	3	FU5-FU7
3	02819 06526 00	Miniature breaker	1	Q1
4	08703 00004 00	Terminal block	30	DZ
5	02818 05001 50	Transformer	1	T
6	02824 20040 00	Fan motor current transformer	1	CT2
7	02825 60025 01	Fan motor contactor	1	KM4
8	02808 04524 00	Switching power supply	1	DR
9	08702 08050 00	Insulator	3	JYZ
10	02824 00400 01	Current transformer	1	CT1
11	02825 60205 06	AC contactor	1	KM1
12	02825 60205 06	AC contactor	1	KM2
13	09705 31954 20	Mechanical interlock	1	HS
14	02825 60205 06	AC contactor	1	KM3
15	02829 25065 01	Cable copper bar	1	JXTP
16	02829 20225 01	Contact copper bar	1	TP
17	08703 00240 00	Terminal	3	TC2
18	02811 15194 37	Controller	1	XSQ
19	02827 04844 00	Emergency button	1	JT
20	02827 04104 00	Emergency button seat	1	JT
21	02810 01097 00	Pressure sensor	1	DP
22	02810 01097 00	Pressure sensor	1	SP
23	02810 30965 00	Temperature sensor	1	DT
24	02810 30965 00	Temperature sensor	1	ST
25	02829 42524 50	Grounding copper bar	1	JDTP
26		Electrical control board	1	DKB
*27	02821 10004 00	Fuse	3	FU5-FU7
*28	02821 10006 00	Fuse	2	FU1-FU2

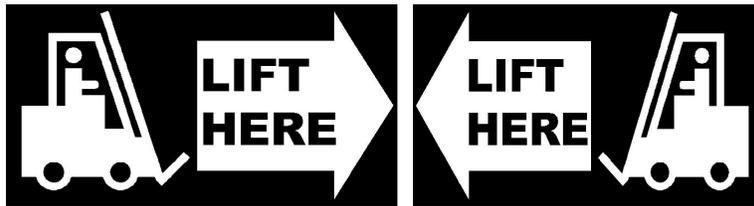
Note: * Items are not shown on the drawing.

Decals

Decals information is shown as following.



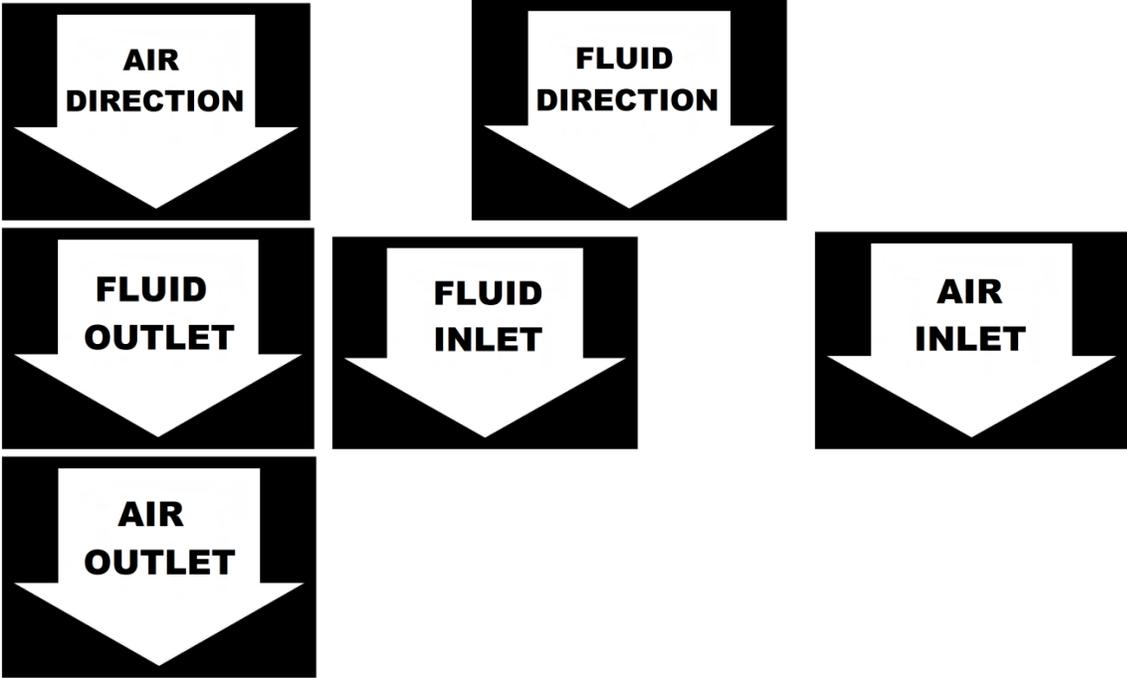
Decals



NOTE:

1. DECALS P/N : 142939

Decals



NOTE:

- 1. DECALS P/N : 142939

Standard Terms and Conditions

These terms and conditions govern the sale of Products (“Rotary Screw Air Compressors and parts”) and provisions of services by Kaishan Technologies Compressor Co. Ltd (Seller) and its authorized representative or buyer. These terms and conditions (“Agreement”) take precedence over Buyer’s supplemental or conflicting terms and conditions to which notice of objection is hereby given. Neither Seller’s commencement of performance or delivery shall be deemed or construed as acceptance of Buyer’s supplemental or conflicting terms and conditions. Kaishan Technologies Compressor’s failure to object to conflicting or additional terms will not change or add to the terms of this agreement. Buyer’s acceptance of the Products and/or Services from Seller shall be deemed to constitute acceptance of the terms and conditions contained herein.

Orders: All orders placed by Buyer are subject to acceptance by Seller. Orders may not be canceled or rescheduled without Seller’s written consent. All orders must identify the products, unit quantities, part numbers, applicable prices and requested delivery dates of the Products being purchased. Seller may at its sole discretion allocate Product among its Buyer. Seller may designate certain Products and Services as non-cancelable, non-returnable and the sale of such Products shall be subject to the special terms and conditions contained in Seller’s Customer Acknowledgement or Non-Returnable Product Form, which shall prevail and supersede any inconsistent terms and conditions contained herein or elsewhere.

Prices: The prices of the Products are those prices specified on the front of the invoice or contained within an agreed written contract. Price quotations shall automatically expire in thirty (30) days from the date issued, or as otherwise stated in the quotation.

Taxes: Unless otherwise agreed to in writing by Seller, all prices quoted are exclusive of transportation and insurance costs, duties, and all taxes including federal, state and local sales, excise and value added, goods and services taxes, and any other taxes. Buyer agrees to indemnify and hold Seller harmless for any liability for tax in connection with the sale, as well as the collection or withholding thereof, including penalties and interest thereon. When applicable, transportation and taxes shall appear as separate items on Seller’s invoice.

Payment: Payment may be made by check, money order, credit card, or wire transfer (all fees are borne by the Buyer). Where Seller has extended credit to Buyer, terms of payment shall be net thirty (30) days from date of invoice, without offset or deduction. On any past due invoice, Seller may impose a monthly interest rate. If Buyer fails to make the required payments the Seller will impose the interest rate each month. If Buyer fails to make each payment when it is due, Seller reserves the right to withdraw credit and thereby suspend or cancel performance under any or all purchase orders or agreements in which Seller has extended credit to Buyer. In the event of default by Buyer, Seller shall be entitled to costs, fees, and expenses including but not limited to recovery of attorney fees, court costs and fees, and collections costs.

Standard Terms and Conditions

Delivery and Title: The locations of shipment delivery will be made according to the Seller and Buyer agreement. Title and risk of loss pass to the Buyer upon delivery of the Product to the carrier. Seller's delivery dates are estimates only and Seller is not liable for delays in delivery or for failure to perform due to causes beyond the reasonable control of the Seller, nor shall the carrier be deemed an agent of the Seller. A delayed delivery of any part of an Order does not entitle Buyer to cancel other deliveries. Kaishan Technologies Compressor will comply with various federal, state and local laws and regulation concerning occupational health, safety and environment concerns. Buyer has full responsibility to comply with those laws and regulations during the installation and operation of the equipment.

Acceptance / Returns: Shipments will be deemed to have been accepted by Buyer upon delivery of the said shipments to Buyer unless rejected upon receipt. Buyer shall perform all inspections and tests. Buyer deems necessary as promptly as possible but in no event later than 7 days after receipt of Products, at which time Buyer will be deemed to have irrevocably accepted the Products. Any discrepancy in shipment quantity must be reported within 7 days after receipt of Products. Buyer may not return Products without a Return Material Authorization ("RMA") number. RMA's valid for 30 days from the date issued.

Standard Warranty: Buyer will honor Product warranties and indemnities authorized by the manufacturer, including any transferable. 90 days warranty is given for service parts from receipt date. Seller warrants to Buyer that Products purchased hereunder will conform to the applicable manufacturer's specifications for such products and that any value-added work performed by Seller on such Products will conform to applicable Buyer's specifications. If Seller breaches this warranty, Buyer's remedy is limited to (at Seller's election) (1) refund of Buyer's purchase price for such Product (without interest), (2) repair of such Products, or (3) replacement of such Products provided that such Products must be returned to Seller, along with acceptable evidence of purchase within 13 days from date of delivery, transportation charges prepaid. No warranty will apply if the Product has been subject to misuse, neglect, accident or modification.

Limitation of Liabilities: Buyer shall not be entitled to, and Seller shall not be liable for, loss of profit or revenue, promotional or manufacturing expenses, overheads expenses, business interruption cost, loss of data, removal or reinstallation costs, injury to reputation of buyer, punitive damages, loss of contractor orders or any indirect, special, incidental or consequential damages of any nature. Buyer's recovery from seller for any claim shall not exceed the purchase price paid for the affected products irrespective of the nature of the claim whether in contract, tort, warranty, or otherwise. Buyer will indemnify, defend and hold seller harmless from any claims based on (a) Seller's compliance with buyer's designs, specifications, or instructions, (b) Modification of any products by anyone other than Seller, or (c) use in combination with other products not supplied by seller.

Standard Terms and Conditions

Use of Products: Unless otherwise specified. Products sold by Seller are not designed, intended or authorized for use in life support, life sustaining, nuclear, or other applications in which the failure of such Products could reasonably be expected to result in personal injury, loss of life or catastrophic property damage. If buyer uses or sales the Products for use in any such applications: (1) Buyer acknowledges that such use or sale is at Buyer's sole risk; (2) Buyer agrees that Seller and the manufacturer of the Products are not liable, in whole or in part, for any claim or damage arising from such use; and (3) Buyer agrees to indemnify, defend and hold Seller and the manufacturer of the Products harmless from and against any and all claims, damages, losses, costs, expenses and liabilities arising out of or in connection with such use or sale.

Force Majeure: Seller is not liable for failure to fulfill its obligations for any accepted Order or for delays in delivery due to causes beyond Seller's reasonable control including, but not limited to, acts of God, natural or artificial disaster, riot, war, strike, delay by carrier, shortage of Product, acts or omissions of other parties, acts or omissions of civil or military authority, Government priorities, changes in law, material shortages, fire, strikes, floods, epidemics, quarantine restrictions, acts of terrorism, delays in transportation or inability to obtain labor, materials or products through its regular sources, which shall be considered as an event of force majeure excusing Seller from performance and barring remedies for non-performance. In an event of force majeure condition, the Seller's time for performance shall be extended for a period equal to the time lost as a consequence of the force majeure condition without subjecting Seller to any liability or penalty. Seller may, at its option, cancel the remaining performance, without any liability or penalty, by giving notice of such cancellation to the Buyer.

General: (a) Seller will comply with state law for any dispute from buyer. (b) Buyer may not assign this Agreement without the prior written consent of Seller. Seller or its affiliates may perform the obligations under this Agreement. This Agreement is binding on successor and assigns, (c) Products, including software or other intellectual property, are subject to any applicable rights of third parties, such as patents, copyrights and/or user licenses.

Appendix

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Contact Information

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