

WE PROVIDE
EFFICIENT MACHINE
TO GROW YOUR BUSINESS



ROTARY SCREW AIR COMPRESSOR

NIBER
AUTOMATION

BUSINESS IN
SCREW COMPRESSOR'S
SALE, SPARE & SERVICE

Be a part of **Global Energy Saving**, by using **FlowTech**
Make Permanent Magnet Screw Air Compressor

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SPECIFICATIONS



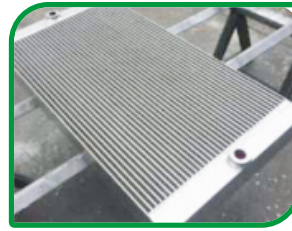
High Efficient Air End

The airend adopt the latest asymmetric line & 5.6 profile rotor, The upgrade of the seal technology from line type to band type, which increases the air production around 5%-10%. Big rotor diameter and low rotation speed make sure airend has long life-span and low noise.



Intake Valve

Intake Valve with high quality & high reliability effectively control the loading & unloading of machine, saving energy



Efficient Radiator

Large size cooler design, putting 30% of margin design, can effectively prevent the machine used in high temperature condition without from of carbon by high temperature.



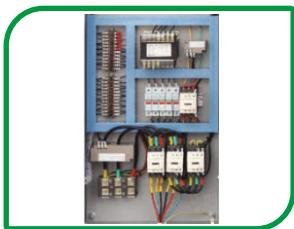
Intelligent Controller

Intelligent micro-computer PLC, with the signals for pressure, temperature, current, provide with an important indicator of alarms and security protection measures.



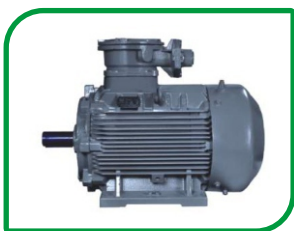
Filtration System

Heavy duty Air filter for longer system life high efficiency oil filter for longer system life. High efficiency 3 stage air oil separation system



Electrical Components

France original schneider electrical components Default phase protection, Over temperature protection, Idle load protection, Automatic unloading, Automatically adjust air delivery



Motor

High Efficiency IE3 / IE4 , Energy Saving, Insulation Grade F, Protection grade IP55, Reliable & long lasting durability



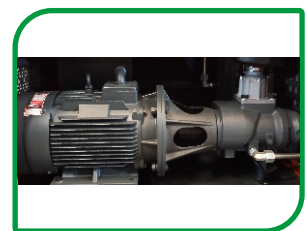
Quiet Operation

High efficiency cooling fan provides sound level low



Air-Oil Separator

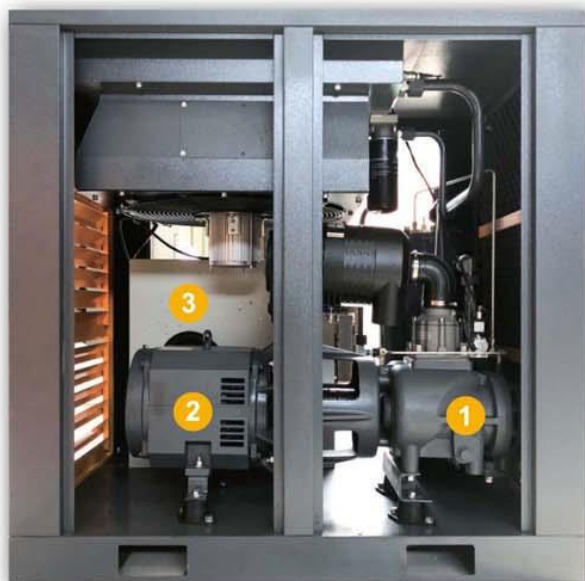
Use Germany technology, cyclone & string separator, to ensure the oil content is less than 2ppm



Energy Saving 1:1 Direct Drive

Low speed 2900 RPM large Airend 1:1 Direct Drive for less transmission losses less wear & less maintenance cost Low speed energy efficient design

OIL INJECTED AIR COMPRESSOR



01

German Flow Tech Air End

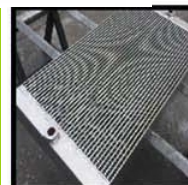
Advanced German FlowTech Air End with larger air delivery and stable running conditions.



04

Efficient Radiator

High quality aluminum fins and copper coil materials with good thermal conductivity ensure the perfect cooling efficiency.



02

High Efficiency Motor

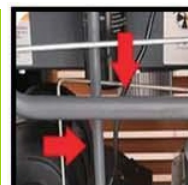
High efficiency totally enclosed fan cooled motor with protection class IP54/IP55 and insulation class F. Standard Flow Tech Motor.



05

Seamless Steel Pipe

Whole seamless steel pipeline system, reduce the oil leakage. With reasonable layout to save space and reduce pressure tools



03

Siemens Electrical Control Protection

Siemens electrical elements with original package from Germany safe and reliable.



06

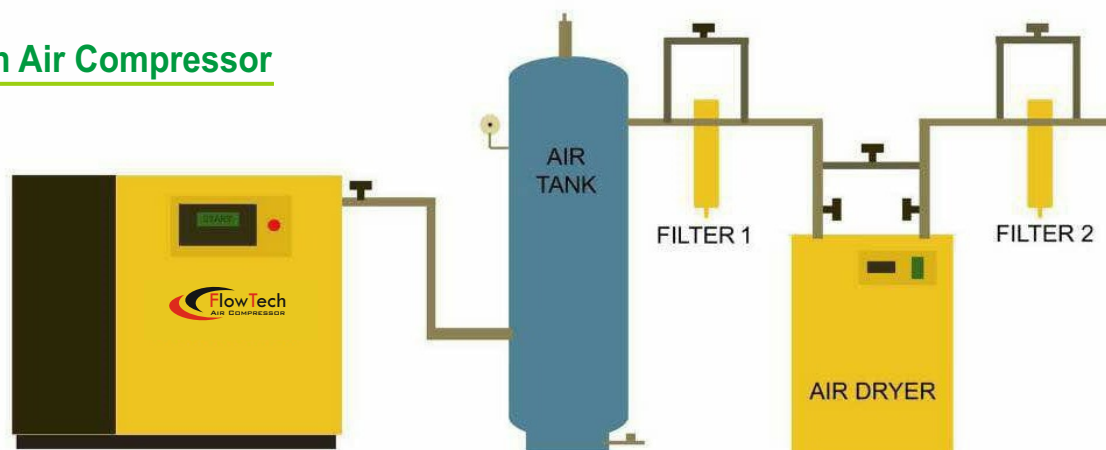
Oil-gas Tank

Use Germany technology, cyclone and string separator, to ensure the oil content is less than 2ppm.



INSTALLATION GUIDE

FlowTech Air Compressor



DIRECT DRIVE SCREW COMPRESSOR

Configuration Characteristics:

- ▶ Direct drive compressors have fewer moving parts and, fewer components that can incur wear and tear.
- ▶ Direct drive compressors better-suited for heavy duty industrial applications where a belt-driven model won't do.
- ▶ Direct drive compressors are more efficient, as less power is lost during transfer from the motor to the crankshaft.
- ▶ Direct drive compressors require less fuel over the life of the unit.



»»» SPECIFICATIONS

MODEL	MAXIMUM WORKING PRESSURE		FREE AIR DELIVERY OF UNIT AT WORKING PRESSURE			MOTOR		NOISE LEVEL	AIR OUTLET DISCHARGE SIZE	WEIGHT	DIMENSIONS
	Bar	PSI	l/s	m ³ /min	CFM	kW	HP	dBA		KG	L X W X H (mm)
FTC-7.5S	7	102	20	1.20	43	7.5	10	65±2	G3/4	250	800x720x950
	8	116	18	1.10	39						
FTC-11S	7	102	28	1.65	59	11	15	70±2	G3/4	350	950x800x1160
	8	116	25	1.50	54						
	10	145	22	1.30	46						
	12	174	18	1.10	39						
FTC-15S	7	102	42	2.50	89	15	20	70±2	G3/4	400	950x800x1160
	8	116	38	2.30	82						
	10	145	35	2.10	75						
	12	174	32	1.90	68						
FTC-18S	7	102	47	2.75	113	18	25	70±2	G3/4	520	1300x785x1170
	8	116	43	2.50	108						
	10	145	40	2.30	93						
	13	174	37	2.10	75						
FTC-22S	7	102	63	3.80	136	22	30	73±2	G1	600	1380x850x1170
	8	116	60	3.60	129						
	10	145	53	3.20	114						
	12	174	47	2.80	100						
FTC-30S	7	102	88	5.30	189	30	40	74±2	G1	650	1380x850x1170
	8	116	83	5.00	179						
	10	145	75	4.50	161						
	12	174	67	4.00	143						
FTC-37S	7	102	112	6.70	239	37	50	74±2	G1 1/2	850	1500x1000x1320
	8	116	103	6.20	221						
	10	145	93	5.60	200						
	12	174	82	4.90	175						

Specification are subject to change without notice.

DIRECT DRIVE SCREW COMPRESSOR

»»» SPECIFICATIONS

MODEL	MAXIMUM WORKING PRESSURE		FREE AIR DELIVERY OF UNIT AT WORKING PRESSURE			MOTOR		NOISE LEVEL	AIR OUTLET DISCHARGE SIZE	WEIGHT	DIMENSIONS
	Bar	PSI	l/s	m ³ /min	CFM	kW	HP	dBA		KG	L X W X H (mm)
FTC-45 S	7	102	123	7.40	264	45	60	74±2	G1 1/2	900	1500x1000x1320
	8	116	117	7.00	250						
	10	145	103	6.20	221						
	12	174	93	5.60	200						
FTC-55 S	7	102	167	10.00	357	55	75	75±2	G2	1700	1900x1250x1600
	8	116	153	9.20	329						
	10	145	142	8.50	304						
	12	174	127	7.60	271						
FTC-75 S	7	102	223	13.40	479	75	100	75±2	G2	1850	2000x1250x1670
	8	116	210	12.60	450						
	10	145	187	11.20	400						
	12	174	167	10.00	357						
FTC-90 S	7	102	270	16.20	579	90	120	75±2	G2	1950	2000x1250x1670
	8	116	250	15.00	536						
	10	145	230	13.80	493						
	12	174	205	12.30	439						
FTC-110 S2	7	102	350	21.00	750	110	150	75±2	DN65	2700	2700x1470x1840
	8	116	330	19.80	707						
	10	145	290	17.40	621						
	12	174	247	14.80	529						
FTC-132 S2	7	102	423	25.40	907	132	175	75±2	DN65	2900	2700x1470x1840
	8	116	387	23.20	829						
	10	145	342	20.50	732						
	12	174	290	17.40	621						
FTC-160 S2	7	102	478	28.70	1025	160	220	75±2	DN65	3200	2700x1470x1840
	8	116	460	27.60	986						
	10	145	410	24.60	879						
	12	174	358	21.50	768						
FTC-185 S2	7	102	533	32.00	1143	185	250	78±2	DN80	3500	3200x2000x2050
	8	116	507	30.40	1086						
	10	145	457	27.40	979						
	12	174	413	24.80	886						
FTC-220 S2	7	102	600	36.00	1286	220	300	78±2	DN80	4000	3200x2000x2050
	8	116	572	34.30	1225						
	10	145	503	30.20	1079						
	12	174	462	27.70	989						
FTC-250 S2	7	102	700	42.00	1500	250	350	78±2	DN100	4500	3200x2000x2050
	8	116	675	40.50	1446						
	10	145	637	38.20	1364						
	12	174	575	34.50	1232						
FTC-315 S2	7	102	850	51.00	1821	315	430	80±2	DN110	6000	3500x2000x2050
	8	116	837	50.20	1793						
	10	145	742	44.50	1589						
	12	174	658	39.50	1411						
FTC-355 S2	7	102	1067	64.00	2286	355	480	82±2	DN110	6500	3500x2000x2050
	8	116	1017	61.00	2179						
	10	145	942	56.50	2018						
	12	174	817	49.00	1750						
FTC-400 S2	7	102	1187	71.20	2543	400	540	82±2	DN120	7200	3800x2000x2050
	8	116	1135	68.10	2432						
	10	145	1047	62.80	2243						
	12	174	870	52.20	1864						

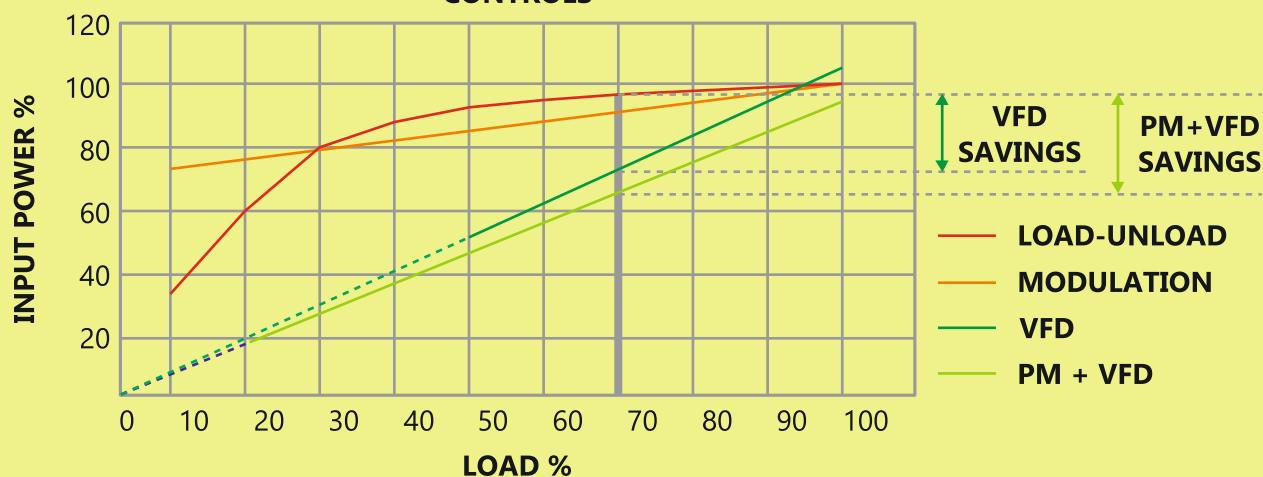
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»»» SPECIFICATIONS

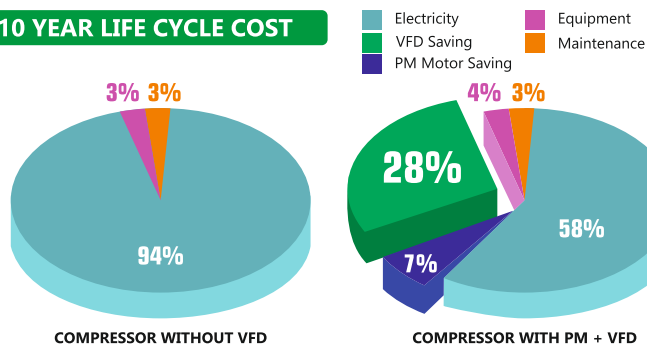
MODEL	MAXIMUM WORKING PRESSURE		Capacity FAD						MOTOR		NOISE LEVEL	AIR OUTLET DISCHARGE SIZE	WEIGHT	DIMENSIONS
			Min.	Max.	Min.	Max.	Min.	Max.						
	Bar	PSI	l/s	l/s	m ³ /min	m ³ /min	CFM	CFM	kW	HP	dBA		KG	L X W X H (mm)
FTC-PM 7.5VSD	7	102	6	20	0.36	1.20	13	43	7.5	10	66±2	G1/2	230	800x900x950
	8	116	6	18	0.33	1.10	12	39						
	10	145	5	15	0.28	0.90	10	32						
	13	189	4	13	0.24	0.80	9	29						
FTC-PM 11VSD	7	102	8	28	0.50	1.70	18	61	11	15	66±2	G3/4	370	1250x800x1160
	8	116	8	25	0.48	1.50	17	54						
	10	145	7	22	0.42	1.30	15	45						
	13	189	6	17	0.36	1.00	13	36						
FTC-PM 15VSD	7	102	12	40	0.72	2.40	26	86	15	20	70±2	G3/4	420	1250x800x1160
	8	116	11	37	0.66	2.20	24	79						
	10	145	10	33	0.60	2.00	21	71						
	13	189	8	28	0.50	1.70	18	61						

LOAD V/S INPUT POWER CHARACTERISTICS

CONTROLS



10 YEAR LIFE CYCLE COST



ADVANTAGES

MECHANICAL

- ➡ Soft Start
- ➡ Minimum Maintenance
- ➡ Smooth Control

ELECTRICAL

- ➡ Low Starting Current
- ➡ Improved Power Factor
- ➡ High Efficiency
- ➡ Reduced Maximum Demand

VARIABLE SPEED DRIVE AIR COMPRESSOR

»» SPECIFICATIONS

MODEL	MAXIMUM WORKING PRESSURE		Capacity FAD						MOTOR		NOISE LEVEL	AIR OUTLET DISCHARGE SIZE	WEIGHT	DIMENSIONS
			Min.	Max.	Min.	Max.	Min.	Max.						
	Bar	PSI	l/s	l/s	m ³ / min	m ³ / min	CFM	CFM	kW	HP	dBA		KG	L X W X H (mm)
FTC-PM 22VSD	7	102	19	63	1.14	3.80	41	136	22	30	72±2	G1	600	1380x850x1170
	8	116	18	60	1.05	3.60	38	129						
	10	146	16	53	0.96	3.20	34	114						
	13	189	15	38	0.87	2.30	31	82						
FTC-PM 30VSD	7	102	26	88	1.56	5.30	56	189	30	40	74±2	G1	650	1380x850x1170
	8	116	25	83	1.50	5.00	54	179						
	10	146	22	75	1.29	4.50	46	161						
	13	189	19	60	1.11	3.60	40	129						
FTC-PM 37VSD	7	102	32	113	1.92	6.80	69	243	37	50	74±2	G1 1/2	550	1500x1000x1320
	8	116	31	103	1.83	6.20	65	221						
	10	146	29	93	1.71	5.60	61	200						
	13	189	26	75	1.53	4.50	55	161						
FTC-PM 45VSD	7	102	40	123	2.40	7.40	86	264	45	60	75±2	G1 1/2	960	1500x1000x1320
	8	116	37	117	2.20	7.00	79	250						
	10	146	33	103	2.00	6.20	71	221						
	13	189	28	83	1.70	5.00	61	179						
FTC-PM 55VSD	7	102	52	167	3.10	10.00	111	357	55	75	75±2	G2	1700	1900x1250x1600
	8	116	48	153	2.90	9.20	104	329						
	10	146	43	142	2.60	8.50	93	304						
	13	189	38	127	2.30	7.60	82	271						
FTC-PM 75VSD	7	102	67	223	4.00	13.40	143	479	75	100	75±2	G2	1850	2000x1250x1670
	8	116	62	210	3.70	12.60	132	450						
	10	146	53	187	3.20	11.20	114	400						
	13	189	48	152	2.90	9.10	104	325						
FTC-PM 90VSD	7	102	75	270	4.50	16.20	161	579	90	120	76±2	G2	1950	2000x1250x1670
	8	116	70	250	4.20	15.00	150	536						
	10	146	62	230	3.70	13.80	132	493						
	13	189	53	205	3.20	12.30	114	439						
FTC-PM 110VSD	7	102	82	350	4.90	21.00	175	750	110	150	76±2	G2 1/2	2700	2700x1470x1840
	8	116	75	330	4.50	19.80	161	707						
	10	146	67	290	4.00	17.40	143	621						
	13	189	58	247	3.50	14.80	125	529						
FTC-PM 132VSD	7	102	90	408	5.40	24.50	193	875	132	175	76±2	G2 1/2	2900	2700x1470x1840
	8	116	83	387	5.00	23.20	179	829						
	10	146	75	342	4.50	20.50	161	732						
	13	189	65	290	3.90	17.40	139	621						
FTC-PM 160VSD	7	102	98	478	5.90	28.70	211	1025	160	200	78±2	G2 1/2	3200	2700x1470x1840
	8	116	93	460	5.60	27.60	200	986						
	10	146	83	410	5.00	24.60	179	879						
	13	189	75	358	4.50	21.50	161	768						
FTC-PM 185VSD	7	102	105	533	6.30	32.00	225	1143	185	250	78±2	DN100	3500	3200x2000x2050
	8	116	100	507	6.00	30.40	214	1086						
	10	146	92	457	5.50	27.40	196	979						
	13	189	83	413	5.00	24.80	179	886						
FTC-PM 220VSD	7	102	113	600	6.80	36.00	243	1286	220	300	78±2	DN100	4000	3200x2000x2050
	8	116	107	572	6.40	34.30	229	1225						
	10	146	98	503	5.90	30.20	211	1079						
	13	189	90	462	5.40	27.70	193	989						
FTC-PM 250VSD	7	102	122	700	7.30	42.00	261	1500	250	350	78±2	DN100	4500	3200x2000x2050
	8	116	115	675	6.90	40.50	246	1446						
	10	146	107	637	6.40	38.20	229	1364						
	13	189	98	575	5.90	34.50	211	1232						

Specification are subject to change without notice.

AIR REFRIGERANT DRYER

TECHNICAL DATA

Sl. No.	Model	Air flow		Width	Depth	Height	Weight	Power Supply v/ Ph 50 Hz	Air Connection (BSPFF) / ANSI B 16.5 CL. 150
		cfm	m3/hr						
1	FT 001 AD	10	17	360	460	460	31	230/1	1/2"
2	FT 002 AD	20	34	360	460	460	32	230/1	1/2"
3	FT 004 AD	40	68	400	520	460	36	230/1	3/4"
4	FT 006 AD	60	102	400	520	460	37	230/1	3/4"
5	FT 008 AD	80	136	450	630	550	54	230/1	1"
6	FT 010 AD	100	170	450	630	550	55	230/1	1"
7	FT 012 AD	125	212	450	630	550	56	230/1	1"
8	FT 015 AD	150	255	500	800	820	79	230/1	1-1/2"
9	FT 020 AD	200	340	500	800	820	90	230/1	1-1/2"
10	FT 025 AD	250	425	500	800	820	95	230/1	1-1/2"
11	FT 030 AD	300	510	600	950	1060	138	230/1	2-1/2"
12	FT 035 AD	350	595	600	950	1060	140	230/1	2-1/2"
13	FT 040 AD	400	680	600	950	1060	142	230/1	2-1/2"
14	FT 050 AD	500	850	600	950	1060	144	415/3	2-1/2"
15	FT 060 AD	600	1020	600	950	1060	148	415/3	2-1/2"

eSave Options Available for below capacity dryer, Add small 'e' at end of the model, if eSave option is required

16	FT 075 AD	750	1275	700	950	1450	475	415/3	DN100
17	FT 100 AD	1000	1700	800	1075	1615	520	415/3	DN100
18	FT 125 AD	1250	2125	800	1075	1615	530	415/3	DN100
19	FT 150 AD	1500	2550	1000	1600	1630	600	415/3	DN100
20	FT 150 AD	1500	2550	1150	1400	1630	550	415/3	DN100
21	FT 200 AD	2000	3400	1150	1400	2000	650	415/3	DN150
22	FT 250 AD	2500	4250	1150	1400	2000	655	415/3	DN150
23	FT 300 AD	3000	5100	1150	1700	2000	700	415/3	DN150
24	FT 400 AD	4000	6800	1150	1700	2000	750	415/3	DN200
25	FT 500 AD	5000	8500	1150	1600	2000	985	415/3	DN200
26	FT 600 AD	6000	10200	1500	1900	2000	1250	415/3	DN200
27	FT 700 AD	7000	11900	1800	2500	2100	1550	415/3	DN250
28	FT 800 AD	8000	13600	1800	2600	2100	1750	415/3	DN250
29	FT 900 AD	9000	15300	1800	2600	2100	2250	415/3	DN250
30	FT 999 AD	10000	17000	1800	2600	2100	2500	415/3	DN300

Note : For more than 10000 cfm kindly contact our Head office. Water cooled options are available from 500 cfm onwards.
Air cooled version can be given for any capacity upon request.



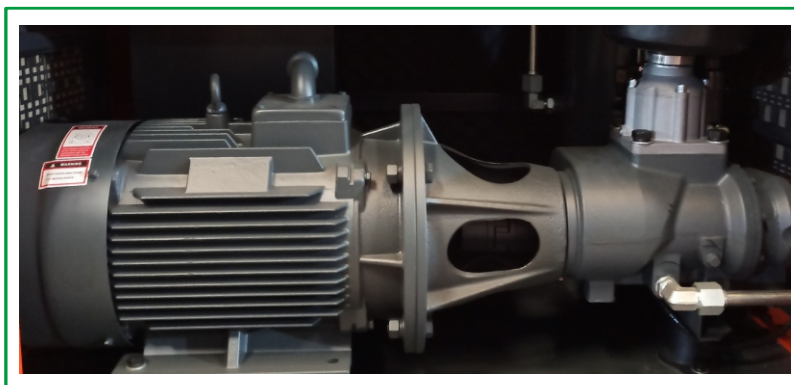
AIR DRYER



AIR LINE FILTER

AIR RECEIVER TANK

TECHNICAL SPECIFICATIONS



ONE TO ONE GEAR LESS DIRECT DRIVE SCREW AIR COMPRESSOR

At low speed 2900 RPM Large Air end are more efficient than high speed Air ends, delivering more compressed air for same drive power, Lower speed means increased efficiency and durability with reduced compressed air cost, Less wear and less maintenance cost.

FEATURES:

- Oil cooler is designed at 46° C ambient Temp. which is suitable for Indian Industrial circumstances.
- All parts are designed with universal design code/standard.
- Consumable Cost is low up to 35% as compare to others.
- Thermostatically operated fan motor.



Niber Automation

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