

AIR ENERGY CATALOGUE



The Air of Trust





Headquarters	ANEST IWATA Corporation
Founded	May 1 st , 1926
Established	June 2 nd , 1948
Capital	3354 mil Yen / 25 mil EUR
Listed Stock	First section of the Tokyo Stock Exchange, listed in 1973
Main Business	• Air compressors and associated products • Spray painting equipment, liquid application equipment, associated products and installation • Vacuum pumps and associated products
Accounting Term	March 31 st
Number of Employees	1,736 / Japanese: 616(35%) and Other: 1,120(65%) including group companies
Domestic Bases	Headquarters, 2 plants and 15 branches
Group	38 companies (Outside Japan : 35)
Accounting Period	March, 31

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Oilfree Scroll Compressor

Simplex Scroll Compressors

Multiplex Scroll Compressors



Oilfree Piston Compressor

Oilfree Reciprocating Compressors



Screw Compressor

Oil Lubricate Screw Compressors



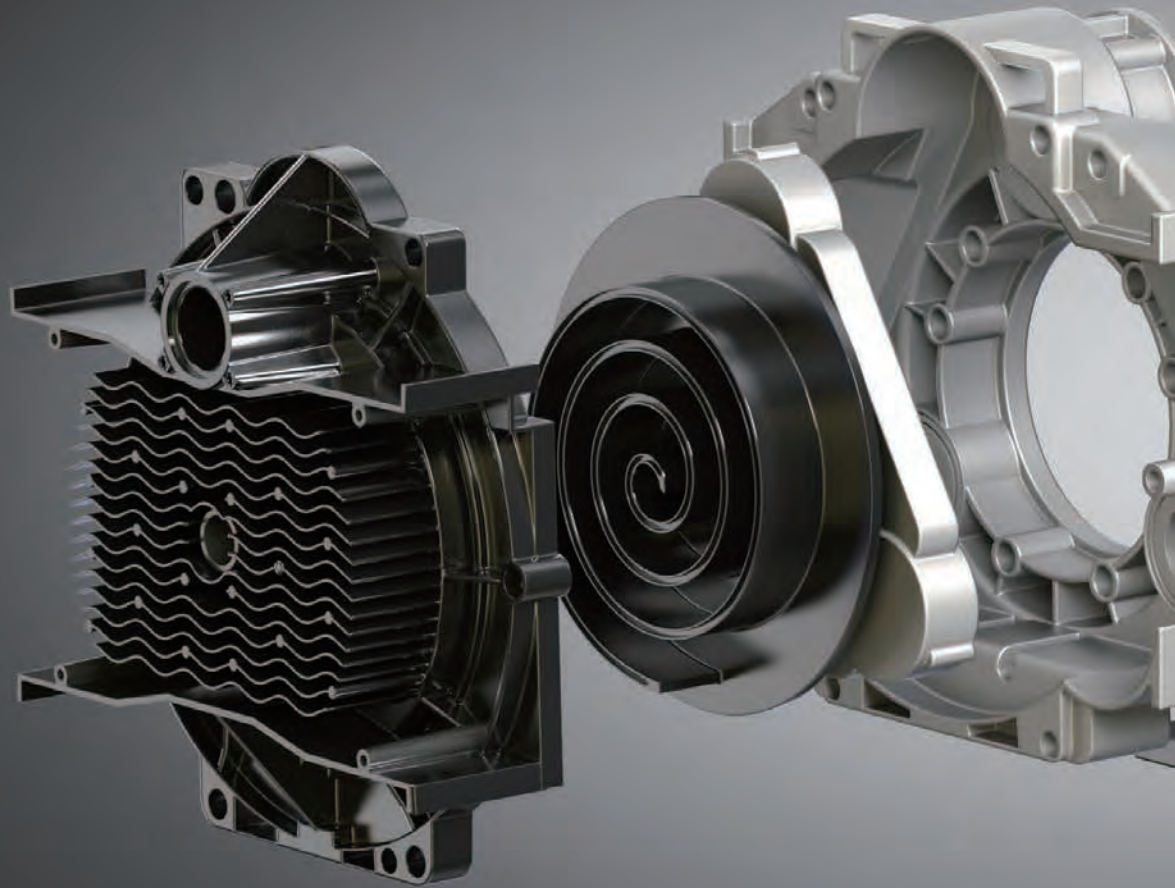
Oilfree Scroll Vacuum Pump

Dry Scroll Vacuum Pump



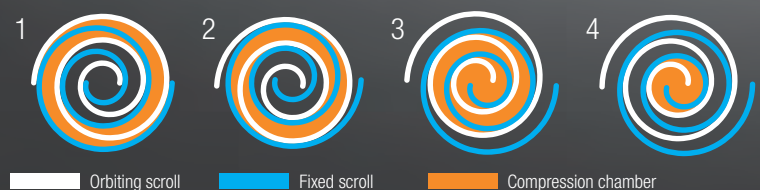
The Most Advanced Technologies for High-Quality air

High-precision processing technology is required to produce the components that make up a Scroll Compressor. We have developed new Scroll Air-Ends thanks to the experience and know-how we have accumulated over the past 20 years.



Scroll Compression Principle

As the orbiting scroll goes from No.1 to No.4 position, the size of the symmetrical crescent-shaped compression chambers is gradually reduced, compressing the air contained within. This is then discharged through the central exhaust port.



Oilfree Drain

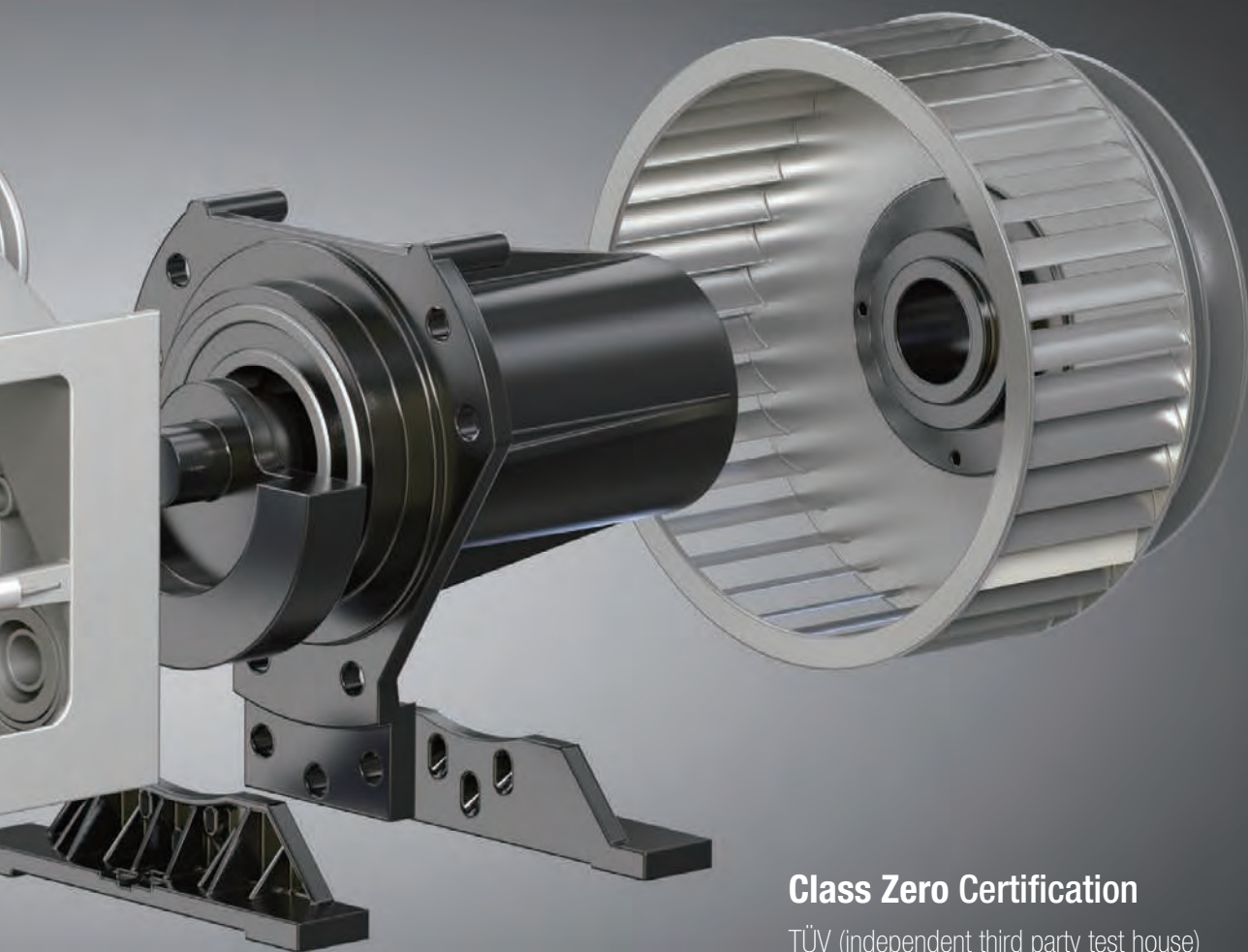
Drainage from oil-lubricated compressors requires proper treatment as it contains oil. Oilfree scroll compressors, on the other hand, are eco-friendly, their drain is clean and does not contain oil, therefore avoiding the cost of drain disposal.



Drainage from an oilfree compressor



Drainage from an oil-lubricated compressor



Class Zero Certification

TÜV (independent third party test house) has just certified that the air quality from our oilfree scroll compressors is in conformity with "Class 0 (ISO8573-1:2010[-:-:0])".



Clean

Air from oil-lubricated compressors contains oil and can contaminate the piping. This does not happen with an Oilfree Scroll Compressor which produces high-quality oilfree air.

INSIDE THE PIPING OF AN OIL-LUBRICATED COMPRESSOR



INSIDE THE PIPING OF AN OILFREE COMPRESSOR



What is Class Zero?

ISO8573-1 (JIS B8392-1) defines quality classes for compressed air. Class Zero indicates wall flow oil, oil mist and oil vapor are completely absent. As oil vapor in particular cannot be absorbed by conventional air filters, it is important factories that require clean air use Class Zero compressors.

CLASS	Oil Concentration mg/m ³
0	As specified by the equipment user or supplier and more stringent the Class 1
1	≤ 0.01
2	≤ 0.1
3	≤ 1
4	≤ 5



- ① Wall Flow Oil ② Oil Mist
③ Oil Vapor

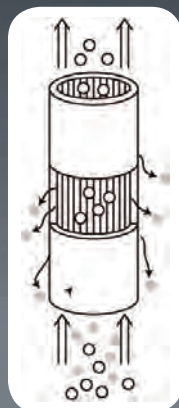
Simplex Oilfree Scroll Compressors

0.75 kW (1HP)

Features

- 8.000 hrs. maintenance free^{*3}
- Class Zero oilfree air
- Low noise level
- Low vibration
- Compact size
- Wheels for easy relocation
- Membrane dryer model available

49dB(A)



• **SLPE-07E**

Principle of membrane

Features of Membrane Dryer

- Environmentally friendly; no Freon gas
- Purge-cut function



Casters for better mobility



Scroll air-end (1HP) (Direct-Driven)



Aluminium air receiver (anti-rust coated)



Membrane dryer

Model	Power		Operation Control	Max. Working Pressure		F.A.D. (*1)		Noise Level (*2)	Outlet size	Dryer pressure dew point °C	Tank capacity L	Net Dimensions (WxDxH) mm	Net Weight kg	Voltage Volt/Hz/Pha
	kW	HP		bar	MPa	L/min	m³/h							
SLPE-07E	0.75	1	Pressure switch	8	0.8	70	4.2	49	Rc 3/8 [ball valve]	-	5 (internal)	335x590x690	50	230/50/1
SLPE-07ED						60	3.6			15		335x660x690	52	

*1 F.A.D. is measured at max working pressure.

*2 Noise level measured at a distance of 1M according to ISO11201; tolerance±3dB

*3 Except intake filter

• It is recommended to install air filters and an external receiver tank after the compressor.

• Even with Class Zero compressors, oil may be found in the piping.

• This may be caused by the presence of oil in the piping before installation of the compressor or by accident during the production process.

• Dimensions may be revised without prior notice due to design modifications .



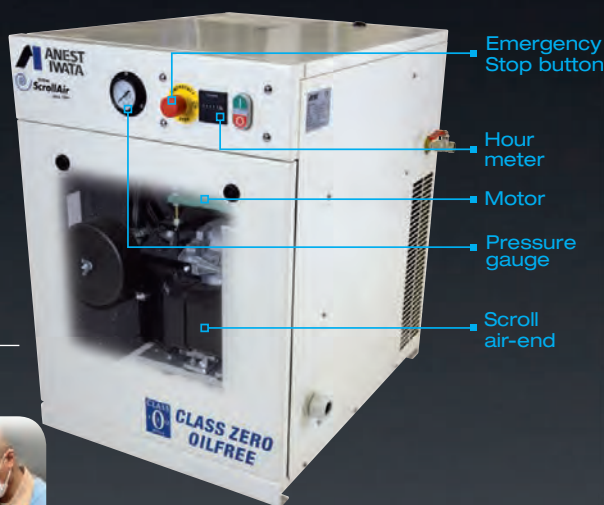
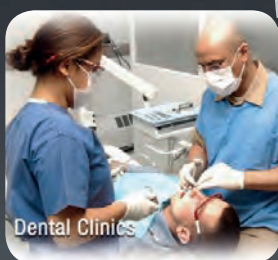
Simplex Oilfree Scroll Compressors

1.5 kW (2HP) - 7.5 kW (10HP)

Features

- 10.000 hrs. maintenance free^{*3}
- Class Zero oilfree air
- IE3 premium efficiency motor
- Control panel for easy operation in 5.5/7.5kW model
- Low noise level
- Low vibration

SLPE-15(1)E-37(1)E



Emergency Stop button

Hour meter

Motor

Pressure gauge

Scroll air-end



SLPE-55(1)F-75(1)F

8 bar models

	Model	Power		Operation control	Max. Working Pressure	F.A.D.(*1)		Noise Level (*2)	Outlet	Net Dimensions	Net Weight	Tank capacity	Voltage
		kW	HP		bar	L/min	m³/h	dB(A)	size	WxDxH (mm)	Kg	L	Volt/Hz/Pha
Standard	SLPE-15E	1.5	2	Pressure Switch	8	155	9.3	54	Rc 3/8	535x685x745	80	-	230/50/1
	SLPE-22E-T	2.2	3			243	14.6	56			85		400/50/3
	SLPE-37E	3.7	5			404	24.2	59			105		
	SLPE-55F	5.5	7.5	Pressure Sensor	8	596	35.8	55	Rc 3/4	605x970x1195	205	90/270	400/50/3
	SLPE-75F	7.5	10			808	48.5	57			210		
w/Tank	SLPE-15E-90/270	1.5	2	Pressure Switch	8	155	9.3	56	Rc 3/8	1454x775x1339/ 1476x557x1429	150/200	90/270	230/50/1
	SLPE-22E-T-90/270	2.2	3			243	14.6	61			155/205		400/50/3
	SLPE-37-90/270	3.7	5			404	24.2	59			175/225		
w/Tank w/Dryer	SLPE-15ED-90/270	1.5	2	Pressure Switch	8	155	9.3	57	Rc 3/8	1454x775x1510/ 1476x557x1600	175/225	90/270	230/50/1
	SLPE-22E-TD-90/270	2.2	3			243	14.6	63			180/230		400/50/3
	SLPE-37ED-90/270	3.7	5			404	24.2	60			200/250		

10 bar models

	Model	Power		Operation control	Max. Working Pressure	F.A.D.(*1)		Noise Level (*2)	Outlet	Net Dimensions	Net Weight	Tank capacity	Voltage
		kW	HP		bar	L/min	m³/h	dB(A)	size	WxDxH (mm)	Kg	L	Volt/Hz/Pha
Standard	SLPE-151E	1.5	2	Pressure Switch	10	119	7.1	55	Rc 3/8	535x685x745	80	-	230/50/1
	SLPE-221E-T	2.2	3			207	12.4	57			85		400/50/3
	SLPE-371E	3.7	5			337	20.2	59			105		
	SLPE-551F (ComingSoon)	5.5	7.5	Pressure sensor									
	SLPE-751F	7.5	10			653	39.2	58	Rc 3/4	605x970x1195	210		
w/Tank	SLPE-151E-90/270	1.5	2	Pressure Switch		119	7.1	58	Rc 3/8	1454x775x1339/ 1476x557x1429	150/200	90/270	230/50/1
	SLPE-221E-T-90/270	2.2	3		207	12.4	57	155/205			400/50/3		
	SLPE-371E-90/270	3.7	5		337	20.2	62	175/225					
w/Tank	SLPE-151ED-90/270	1.5	2	Pressure Switch		11	7.1	59	Rc 3/8	1454x775x1510/ 1476x557x1600	175/225	90/270	230/50/1
	SLPE-221E-TD-90/270	2.2	3		207	12.4	58	180/230			400/50/3		
	SLPE-371ED-90/270	3.7	5		337	20.2	66	200/250					

*1 F.A.D. is measured at max working pressure.

*2 Noise level measured at a distance of 1M according to ISO11201; tolerance±3dB

*3-1 Except intake filter

*3-2 5000 hrs. for 10 bar models and 8000 hrs. for 5.5kW and 7.5kW models

• It is recommended to install air filters and an external receiver tank after the compressor.

• Even with Class zero compressors, oil may be found in the piping.

• This may be caused by the presence of oil in the piping before installation of the compressor or by accident during the production process.

• Adsorption dryer is available also.

• Dimensions may be revised without prior notice due to design modifications.

Multiplex Oilfree Scroll Compressors

11 kW (15HP) - 30 kW (40HP)

Features

- Multi Stage Control for energy conservation
- Class Zero oilfree air
- 10.000 hrs. maintenance free for 8 bar model^{*3}
- IE3 premium efficiency motor
- Touch panel for monitoring running conditions
- Low noise level
- Low vibration



Food factory

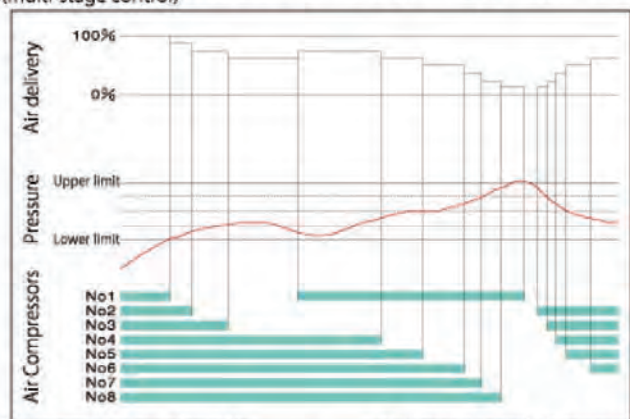


Semiconductor development



**Multi-stage
Scroll Compressor**

Operation of multi-stage control to achieve high energy-saving performance (multi-stage control)



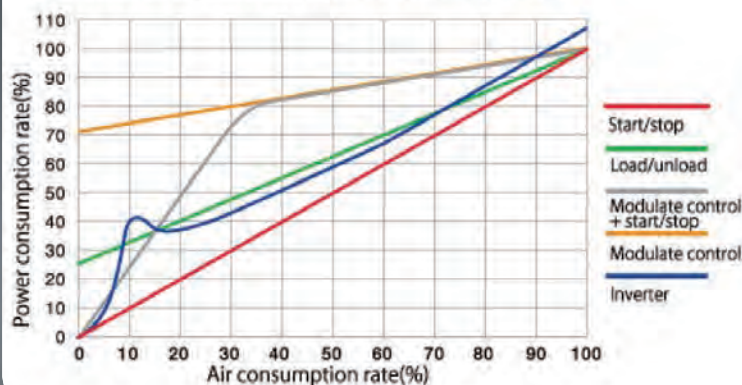
Energy-saving operation with 4 compressors when consumption is low



Full operation with 6 compressors when consumption is high



Differences in power consumption rate by control method



8 bar models

Model	Power		Operation control	Max. Working Pressure	F.A.D. (*1)		Noise Level (*2)	Outlet size	Net Dimensions (mm)	Net Weight (Kg)	Voltage
	kW	HP		bar	L/min	m³/h					
SLPE-110E	11(3x3.7)	15	Pressure sensor	8	1211	73	59	Rc 1	655x960x155	365	400/50/3
SLPE-150E	15(4x3.7)	20			1615	96.9	61			435	
SLPE-220E	22(6x3.7)	30			2422	145	64	Rc 1-1/2	1370x955x155	745	
SLPE-300E	30(8x3.7)	40			3230	194	67			885	

10 bar models

Model	Power		Operation control	Max. Working Pressure	F.A.D. (*1)		Noise Level (*2)	Outlet size	Net Dimensions (mm)	Net Weight (Kg)	Voltage
	kW	HP		bar	L/min	m³/h					
SLPE-1101E	11(3x3.7)	15	Pressure sensor	10	1009	61	60	Rc 1	655x960x155	365	400/50/3
SLPE-1501E	15(4x3.7)	20			1346	80.8	62			435	
SLPE-2201E	22(6x3.7)	30			2018	121	66	Rc 1-1/2	1370x955x155	745	
SLPE-3001E	30(8x3.7)	40			2692	162	65			885	

*1 F.A.D. is measured at max working pressure.

*2 Noise level measured at a distance of 1M according to ISO11201; tolerance±3dB

*3-1 Except intake filter

*3-2 5000 hrs. for 10 bar models

• It is recommended to install air filters and an external receiver tank after the compressor.

• Even with Class zero compressors, oil may be found in the piping.

This may be caused by the presence of oil in the piping before installation of the compressor or by accident during the production process

• Dimensions may be revised without prior notice due to design modifications.

LIST OF TECHNICAL SPECIFICATIONS

8 bar models

	Model	Power		Operation control	Max. Working Pressure	F.A.D.(*1)		Noise Level (*2)	Outlet	Net Dimensions	Net Weight	Tank capacity	Voltage		
		kW	HP			bar	L/min							m³/h	dB(A)
Standard	SLPE-07E	0.75	1	Pressure Switch	8	70	4.2	49	Rc 3/8	335x590x690	50	5	230/50/1		
	SLPE-07ED					60	3.6			335x660x690	52	(Internal)			
	SLPE-15E	1.5	2			155	9.3	54		535x685x745	80	-	400/50/3		
	SLPE-22E-T	2.2	3			243	14.6	56			85				
	SLPE-37E	3.7	5			404	24.2	59			105				
	SLPE-55F	5.5	7.5	Pressure Sensor		596	35.8	55	Rc 3/4	605x970x1195	205			-	400/50/3
	SLPE-75F	7.5	10			808	48.5	57			210				
	SLPE-110E	11	15			1211	73	59	Rc 1	655x960x155	365				
	SLPE-150E	15	20			1615	96.9	61			435				
	SLPE-220E	22	30			2422	145	64	Rc 1-1/2	1370x955x155	745				
	SLPE-300E	30	40			3230	194	67			885				
W/Tank	SLPE-15E-90/270	1.5	2	Pressure Switch	8	155	9.3	56	Rc 3/8	1454x775x1339 / 1476x557x1429	150/200	90/270	230/50/1		
	SLPE-22E-T-90/270	2.2	3			243	14.6	61			155/205		400/50/3		
	SLPE-37E-90/270	3.7	5			404	24.2	59			175/225				
W/Tank W/Dryer	SLPE-15ED-90/270	1.5	2	Pressure Switch	8	155	9.3	57	Rc 3/8	1454x775x1510 / 1476x557x1600	175/225	90/270	230/50/1		
	SLPE-22E-TD-90/270	2.2	3			243	14.6	63			180/230		400/50/3		
	SLPE-37ED-90/270	3.7	5			404	24.2	60			200/250				

10 bar models

	Model	Power		Operation control	Max. Working Pressure	F.A.D.(*1)		Noise Level (*2)	Outlet	Net Dimensions	Net Weight	Tank capacity	Voltage
		kW	HP			bar	L/min						
Standard	SLPE-151E	1.5	2	Pressure Switch	10	119	7.7	55	Rc 3/8	535x685x745	80	-	230/50/1
	SLPE-221E-T	2.2	3			207	12.4	57			85		
	SLPE-371E	3.7	5			337	20.2	59			105		
	SLPE-551F (Coming Soon)	5.5	7.5	-		-	-	-	-	-	-		400/50/3
	SLPE-751F	7.5	10	Pressure Sensor		653	39.2	85	Rc 3/4	605x970x1195	210		
	SLPE-1101E	11	15			1009	61	60	Rc 1	655x960x155	365		
	SLPE-1501E	15	20			1346	80.8	62			435		
	SLPE-2201E	22	30			2018	121	66	Rc 1-1/2	1370x955x155	745		
	SLPE-3001E	30	40			2692	162	65			885		
W/Tank	SLPE-151E-90/270	1.5	2	Pressure Switch	10	119	7.1	58	Rc 3/8	1454x775x1510 / 1476x557x1429	150/200	90/270	230/50/1
	SLPE-221E-T-90/270	2.2	3			207	12.4	57			155/205		400/50/3
	SLPE-371E-90/270	3.7	5			337	20.2	62			175/225		400/50/3
W/Tank W/Dryer	SLPE-151ED-90/270	1.5	2	Pressure Switch	10	119	7.1	59	Rc 3/8	1454x775x1510 / 1476x557x1600	175/225	90/270	230/50/1
	SLPE-221E-TD-90/270	2.2	3			207	12.4	58			180/230		400/50/3
	SLPE-371ED-90/270	3.7	5			337	20.2	66			200/250		400/50/3



1 | 2 | 3 | 4 | 5 | 6^{*1} | 7
SLPE - 22 1 E D - M - 270

1	Model	SLPE	Oilfree Scroll Compressor
2	Power	07	0,75kW / 1HP
		15	1,5kW / 2HP
		22	2,2kW / 3HP
		37	3,7kW / 5HP
		55	5,5kW / 7,5HP
		75	7,5kW / 10HP
		110	11kW / 15HP
		150	15kW / 20HP
		220	22kW / 30HP
		300	30kW / 40HP
3	Max. Press.	Blank	8 bar
		1	10 bar
4	Series	E	E Series
		F	F Series
5	Dryer	Blank	Without Dryer
		D	With Dryer
6 ^{*1}	Power	M	Single phase, 230V/50Hz
		T	Three phase, 400V/50Hz
7	Tank (coming soon)	Blank	Without tank
		90	With 90L tank

*1 : Only 2,2kW model

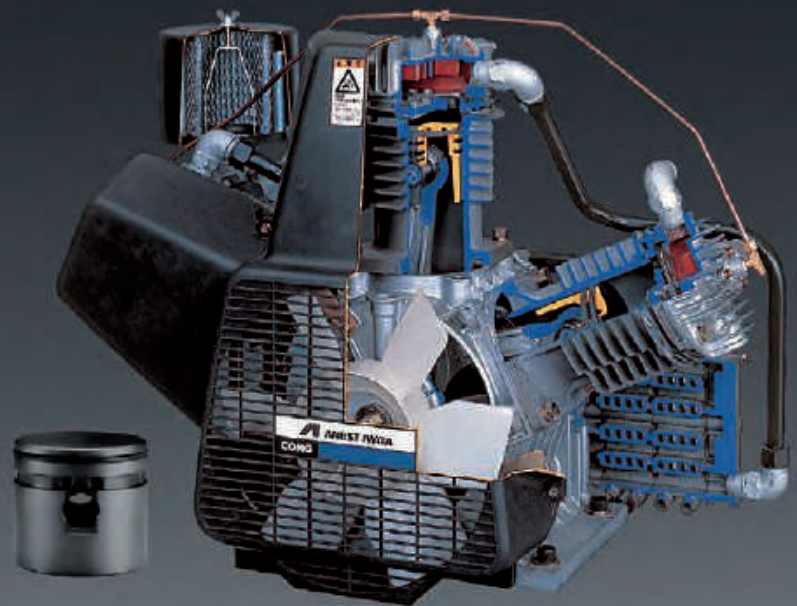
*Dimensions may be revised without prior notice due to design modifications .

OILFREE RECIPROCATING TECHNOLOGY

We developed wide range of **OILFREE RECIPROCATING COMPRESSORS** in 1979 and keep improving the technologies since then along with our unique technical characteristics which are Composite Resin Piston and high pressure as well as high durability.

FEATURES:

- Oilfree Air
- Composite resin piston
- Long maintenance interval (10,000 hrs.)
- Durability for continues workload
- Wide range (0,75kW to 11kW)
- 2 way cooling system (above 2,2kW)
- 2-stage for 14 bar (above 5,5kW)



The composite resin piston

The composite resin piston is made from a heat resistant and thermosetting resin.

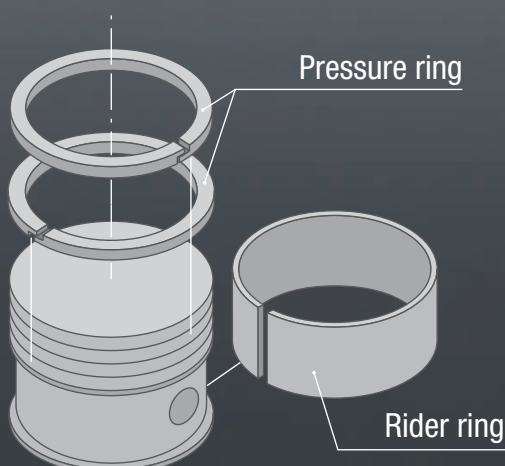
It has excellent anti-wear characteristics and can endure continuous use under high temperatures.

It eliminated the need for a rider ring, which is essential to conventional OILFREE air compressors.

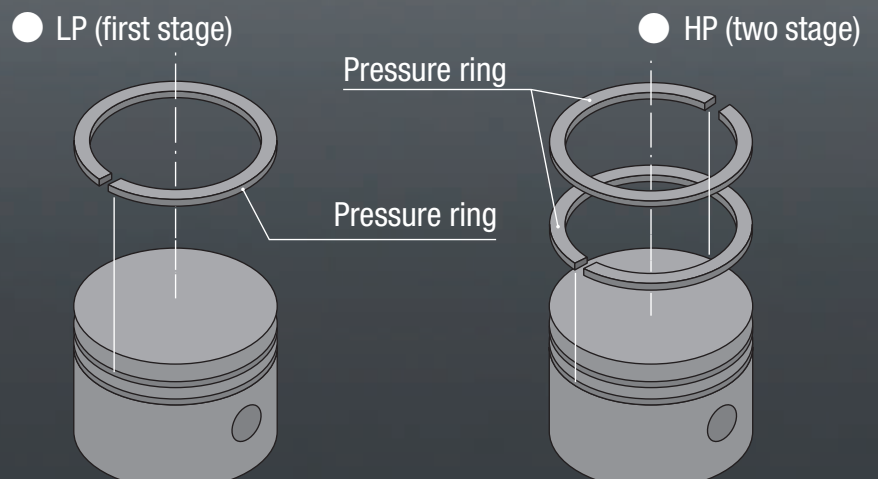
This means you are free from seizure or galling, often found in the rider ring mechanism.

The compression ring is made from Teflon resin which has high heat and anti-wear resistance properties.

■ Conventional OILFREE piston



■ Composit resin piston



TFPE Series

The oilfree models provide high-quality clean air.

APPLICATIONS

- Food & Beverage
- Dental & Medical
- Pharmaceutical
- Laboratory
- Painting
- Agriculture
- Fiber industry
- Others



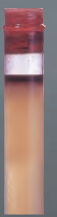
Clean

Air from oil-lubricated compressors contains oil and can contaminate the piping. This does not happen with an Oilfree Scroll Compressor which produces high-quality oilfree air.

INSIDE THE PIPING OF AN OIL-LUBRICATED COMPRESSOR



Drainage from an oilfree compressor



Drainage from an oil-lubricated compressor

INSIDE THE PIPING OF AN OILFREE COMPRESSOR



Model	Power		Operation Control	Max. Working pressure	Displacement	F.A.D	Noise Level	Outlet (Size)	Tank Capacity	Weight	Net Dimensions	Voltage
	kW	HP		bar	L/min	L/min	dB(A)		L	Kg	WxDxH (cm)	Volt/Hz/Pha
TFPE-15-G-50	1.5	2	Pressure switch	10	270	150	72	1"	50	50	90 x 35 x 75	230/50/1
TFPE-22-G-100	2.2	3		10	422	220	73		100	83	115 x 37 x 82	400/50/3
TFPE-37-G-200	3.7	5		10	643	330	80		200	140	150 x 50 x 115	400/50/3
TFPE-55-G-270	5.5	7		14	750	520	80		270	210	155 x 50 x 115	400/50/3
TFPE-75-G-270	7.5	10		14	1060	760	82		270	230	155 x 58 x 120	400/50/3
TFPE-110-G-500	11	15		14	1600	1060	80		500	350	198 x 60 x 140	400/50/3

Model	Power		Operation Control	Max. Working pressure	Displacement	F.A.D	Noise Level	Outlet (Size)	Tank Capacity	Net Weight	Net Dimensions	Voltage
	kW	HP		bar	L/min	L/min	dB(A)		L	Kg	WxDxH (cm)	Volt/Hz/Pha
BFPE-15-G	1.5	2	Pressure switch	10	270	150	72	1"	3	30	70x40x50	230/50/1
BFPE-22-G	2.2	3		10	422	220	73		3	55	70x40x50	400/50/3
BFPE-37-G	3.7	5		10	643	330	80		3	90	70x40x50	400/50/3
BFPE-55-G	5.5	7		14	750	520	80		3	145	100x70x80	400/50/3
BFPE-75-G	7.5	10		14	1060	760	82		3	165	100x70x80	400/50/3
BFPE-110-G	11	15		14	1600	1060	80		3	225	130x80x80	400/50/3

*Dimensions may be revised without prior notice due to design modifications.

OIL LUBRICATE COMPRESSOR

Premium Screw CAIRP Series



⚙️ Low Energy Package Power

Featuring the latest inverted controlled oil cooled IP65 permanent magnet motor with increased efficiency over an IE3 efficiency class. The motor has a max operating temperature of 180 **d e g r e e** to ensure any motor demagnetization does not occur. It has a wide speed operating range from 25% to 100%, making it one of the most efficient machines on the market.

⚙️ Ultra - quiet

The oil cooled PM range of machines have a low operating noise of 68dB(A)

⚙️ Constant Pressure

Aimed to achieve constant pressure state , reflect the true sense of energy - saving

⚙️ Easy to maintain

All the internal parts are easy to access and check regularly what reduces the time and effort of maintenance.



CAIRP-S-7.5-130-F



CAIRP-S-11-130-F



CAIRP-S-15-130-F

PREMIUM LINE

Screw compressor 7.5 to 37 kW



CAIRP-S-37-F



CAIRP-S-22E-F

- Unique designed duel oil cooled PM motor**
The PM motor has a cooling jacket and uses the compressors oil cooling circuit to keep the motor cool even at prolonged periods of low speed operation. The IP65 motor is ideal for dusty or poor environments. The PM motors don't use traditional bearings making the motor maintenance free.
- High Efficiency Airend**
The asymmetrical rotor profile allows for a broader sealing range between rotors compared to the conventional narrow line style seal in most other airends. This increases efficiency by 5% - 10%. The usage of large diameter rotors allow for high efficiencies even at low rotational speeds providing tangible benefits such as low noise and extended longevity.
- Latest touchscreen PLC interface**
It allows simple intelligent control for your compressor. Pressure and scheduling times can be easily programmed allowing you to automatically start and stop the compressor to match production times. Remote operation and real time monitoring are built in the controller as standard.

Model	Motor Power	Motor Power	Max pressure	F.A.D	F.A.D	Noise Level	Tank Capacity	Weight	Net Dimensions	Voltage
	(kW)	(HP)	bar	L/min	m³/h	dB(A)	(L)	(Kg)	cm (WxDxH)	V/Hz/Ph
CAIRP-S-7.5-130-F	7.5	10	10	950	57	67	130	280	112 x 50 x 113	400/50/3
CAIRP-S-11-130-F	11	15	10	1500	90	68	130	320	112 x 60 x 122	400/50/3
CAIRP-S-15-130-F	15	20	10	2000	120	69	130	340	112 x 60 x 122	400/50/3
CAIRP-S-22E-F	22	30	10	3500	210	66	-	560	120 x 80 x 110	400/50/3
CAIRP-S-30E-F	30	40	10	5200	312	68	-	830	130 x 95 x 137	400/50/3
CAIRP-S-37E-F	37	50	10	6300	378	69	-	850	130 x 95 x 137	400/50/3
CAIRP-S-22-F	22	30	10	3200	192	66	-	450	120 x 80 x 110	400/50/3
CAIRP-S-30-F	30	40	10	4200	252	68	-	510	120 x 80 x 110	400/50/3
CAIRP-S-37-F	37	50	10	5600	336	72	-	680	130 x 90 x 127	400/50/3

**Dimensions may be revised without prior notice due to design modifications .*

STANDARD LINE

Screw compressors 4 to 45 kW

Screw compressor

Model	Motor Power	Max pressure	F.A.D	Tank	Noise Level	Weight	Net Dimensions	Voltage
	(kW)	bar	L/min	L	dB(A)	(Kg)	cm (WxDxH)	V/Hz/Ph
CAIR-G-4	4	10	500	-	66	140	65 x 60 x 88	400/50/3
CAIR-G-7.5	7.5	10	1000	-	66	157	65 x 60 x 88	400/50/3
CAIR-G-11	11	10	1500	-	68	250	95 x 65 x 103	400/50/3
CAIR-G-15	15	10	2000	-	68	300	110 x 80 x 122	400/50/3
CAIR-G-22	22	10	3000	-	68	390	110 x 80 x 122	400/50/3
CAIR-G-30	30	10	4000	-	68	750	155 x 100 x 144	400/50/3
CAIR-G-37	37	10	5200	-	68	760	155 x 100 x 144	400/50/3
CAIR-G-45	45	10	6450	-	68	760	155 x 100 x 144	400/50/3
CAIR-G-4-300	4	10	500	300	66	210	165 x 60 x 139	400/50/3
CAIR-G-5.5-300	5.5	10	700	300	66	220	165 x 60 x 139	400/50/3

Screw compressor with inverter

Model	Motor Power	Max pressure	F.A.D	Tank	Noise Level	Weight	Net Dimensions	Voltage
	(kW)	bar	L/min	L	dB(A)	(Kg)	cm (WxDxH)	V/Hz/Ph
CAIR-G-11-F	11	10	1500	-	68	240	95 x 65 x 103	400/50/3
CAIR-G-15-F	15	10	2000	-	68	395	110 x 80 x 122	400/50/3
CAIR-G-22-F	22	10	3000	-	68	440	110 x 80 x 122	400/50/3
CAIR-G-30-F	30	10	4000	-	68	820	155 x 100 x 144	400/50/3
CAIR-G-37-F	37	10	5200	-	68	840	155 x 100 x 144	400/50/3
CAIR-G-45-F	45	10	6450	-	68	840	155 x 100 x 144	400/50/3

**Dimensions may be revised without prior notice due to design modifications .*



CAIR-G-4



CAIR-G-11



CAIR-G-7.5

OIL LUBRICATE COMPRESSOR

Piston Compressor EAIR Series

Oil lubricated piston compressor mobile

Model	Motor Power	Max pressure	Displacement	Tank	Noise Level	Weight	Net Dimensions	Voltage
	(kW)	bar	L/min	L	dB(A)	(Kg)	cm (WxDxH)	V/Hz/Ph
EAIR-G-1.5-50	1.5	10	250	50	72	45	90 x 35 x 72	230/50/1
EAIR-G-3-100	3	10	500	100	78	69	115 x 37 x 82	400/50/3
EAIR-G-4-22	4	11	600	11+11	78	70	73 x 60 x 65	400/50/3

Oil lubricated piston compressor

Model	Motor Power	Max pressure	Displacement	Tank	Noise Level	Weight	Net Dimensions	Voltage
	(kW)	bar	L/min	L	dB(A)	(Kg)	cm (WxDxH)	V/Hz/Ph
EAIR-G-3-270	3	11	500	270	76	132	155 x 58 x 120	400/50/3
EAIR-G-4-500	4	11	600	500	78	210	198 x 60 x 125	400/50/3
EAIR-G-5.5-500	5.5	11	850	500	76	250	198 x 60 x 132	400/50/3
EAIR-G-7.5-500	7.5	11	1182	500	77	320	198 x 60 x 142	400/50/3
EAIR-G-11-500	5.5 + 5.5	11	1700	500	78	380	199 x 60 x 132	400/50/3
EAIR-G-4-270S	4	11	660	270	78	191	60 x 72 x 173	400/50/3

Oil lubricated piston compressor silent

Model	Motor Power	Max pressure	Displacement	Tank	Noise Level	Weight	Net Dimensions	Voltage
	(kW)	bar	L/min	L	dB(A)	(Kg)	cm (WxDxH)	V/Hz/Ph
EAIRS-G-4-270	4	11	600	270	65	218	152 x 62 x 153	400/50/3
EAIRS-G-5.5-500	5.5	11	850	500	68	315	200 x 62 x 165	400/50/3
EAIRS-G-7.5-500	7.5	11	1182	500	68	360	200 x 62 x 165	400/50/3

** Dimensions may be revised without prior notice due to design modifications .*



EAIR-G-4-22



EAIR-G-1.5-50



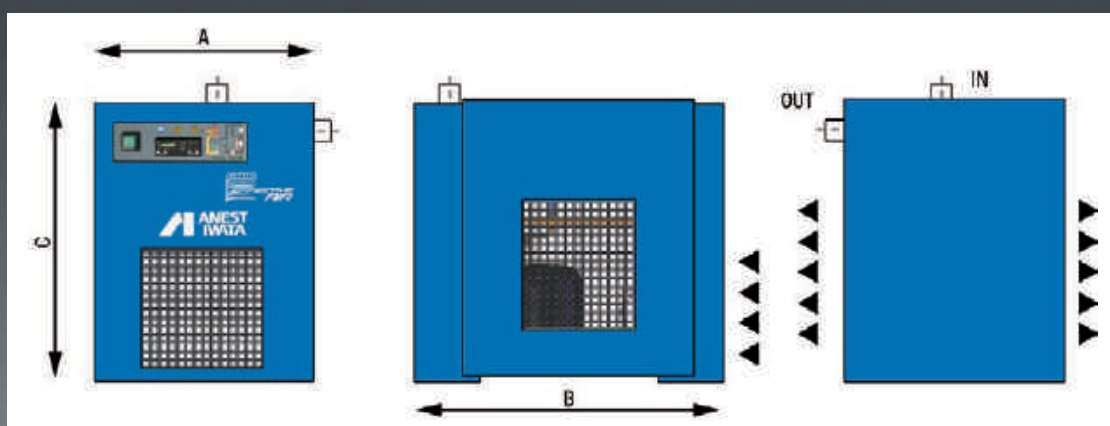
EAIR-G-4-270

Air Compressor Accessories

Refrigerated Air Dryer

Use of Refrigerated Air Dryers allows for the best performance of our oilfree scroll compressors. These units incorporate an electronic control to monitor all functions.

A hot gas bypass valve avoids the formation of ice in the dryer. The vertical flow layout allows for easy access to the drain valve.



Model name	Part no.	Compressor combination		Max. air flow	Outlet	Dimension (WxDxH)	Weight	Voltage
		kW	HP	L/min	size	mm	kg	Volt/Hz/Phase
AID-3/AC	AID003GP1J000	3	4	350	G3/8	310x345x435	21	230/50/single 230/60/single
AID-6/AC	AID006GP1J000	4	5.5	600	G1/2	370x515x475	25	
AID-9/AC	AID009GP1J000	5.5	7.5	950	G1/2	370x515x475	26	
AID-12/AC	AID012GP1J000	7.5	10	1.200	G1/2	370x515x475	28	
AID-18/AC	AID018GP1J000	11	15	1.800	G1/2	370x515x475	32	
AID-25/AC	AID025GP1J005	15	20	2.500	G1	345x420x740	34	230/50/single
AID-32/AC	AID032AP1J005	18.5	25	3.200	G1-1/4	345x445x740	39	
AID-43/AC	AID043AP1J004	22	30	4.300	G1-1/4	345x445x740	40	
AID-52/AC	AID052AP1J004	22+	30+	5.200	G1-1/4	485x455x825	41	
AID-61/AC	AID061AP1J004	30	40	6.100	G1-1/2	555x580x885	54	
AID-75/AC	AID075AP1J003	37	50	7.500	G1-1/2	555x580x885	56	
AID-105/AC	AID105AP1J004	55	75	10.500	G2	555x625x975	94	
AID-130/AC	AID130AP1J004	55+	75+	13.000	G2	555x625x975	96	
AID-168/AC	AID168AP1J002	90	120	16.800	G2-1/2	665x725x1105	144	

- Data refers to the following nominal conditions: ambient temperature of 25°C, with inlet air 7 bar and 35°C, and 5°C pressure dew point (-20.5°C atmospheric pressure dew point).
- Max. working conditions: ambient temperature 45°C, inlet air temperature 55°C and inlet air pressure 14 bar (16 bar for AID-3 to AID-18).
- It is recommended to install an air filter before the inlet.

Air Compressor Accessories



Air Receiver Tank (Vertical)

Model name	Max. working pressure		Capacity	Connection	Weight	Dimension
	MPa	bar	Liter	in-out	kg	WxDxH (mm)
87FY000	1.1	11	100	G3/8-3/4	37	370x370x1156
87LY000			200	G3/8-1	62	446x446x1554
87NY000			270		80	500x500x1648
87TY000			500		135	600x600x2050

**equipped with safety valve, pressure gauge, air release valve and drain valve*



Air Filter with Auto Drain

Model name	Max. working pressure		Filtrating	Connection	Weight	Dimension
	MPa	bar	μm	in-out	kg	WxDxH (mm)
F4000-10G-WF1Z	1.0	10	5μ	G3/8*	0.45	80x79x171
F4000-10G-WF1Y			0.3μ			
M4000-10G-W-FIM			0.01μ			

**also available with other connection sizes from 1/8 to 1 inch*



Auto Drain

Model name	Max. working pressure		Connection		Electricity	Weight	Dimension
	MPa	bar	in-out	outlet (hose size)		kg	WxDxH (mm)
BEKOMAT32	1.6	16	G1/2	G1/2(φ8-10)	230V/50-60HZ	1.0	179x74x115

**recommended electric cable is 3X 0.75mm²*



Air Regulator

Model name	max. working pressure		Setting pressure range		Connection	Weight	Dimension
	MPa	bar	MPa	bar	in-out	kg	WxDxH (mm)
R6000-20G-W	1.0	10	0.05 to 0.85	0.5-8.5	G3/4	1	90x90x151

**equipped with pressure gauge*

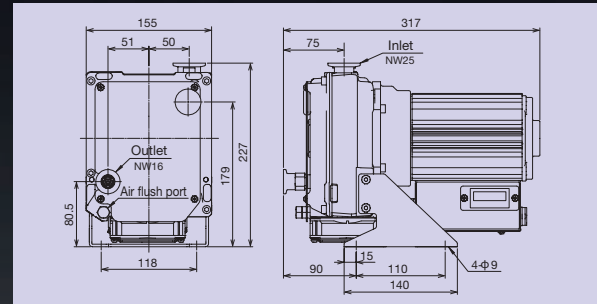
OIL FREE SCROLL VACUUM PUMP

Scroll Meister

ISP-50



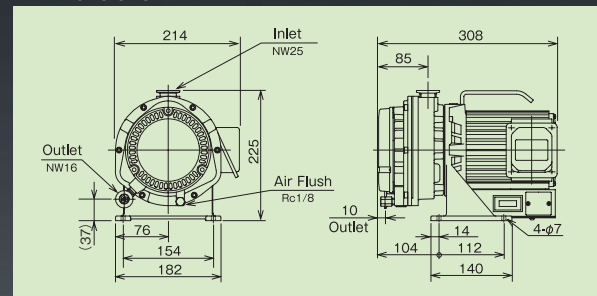
■ Dimensions



ISP-90



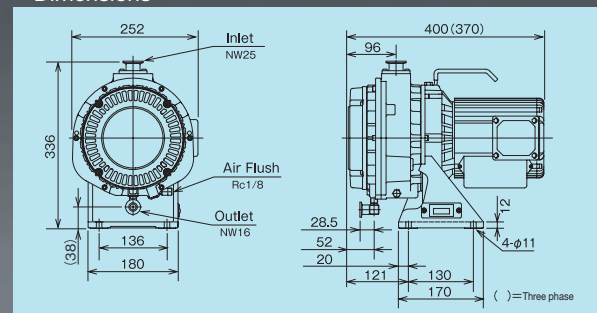
■ Dimensions



ISP-250c



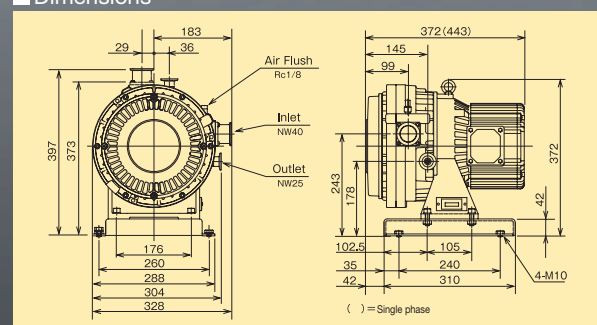
■ Dimensions



ISP-500c



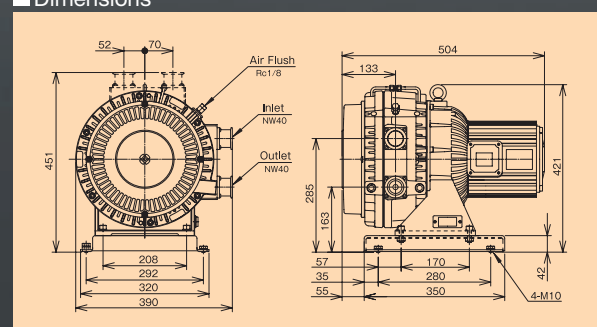
■ Dimensions



ISP-1000E



■ Dimensions





Single Phase Motor



Three Phase Motor



Vertical Inlet



Horizontal Inlet



RoHS Conformity

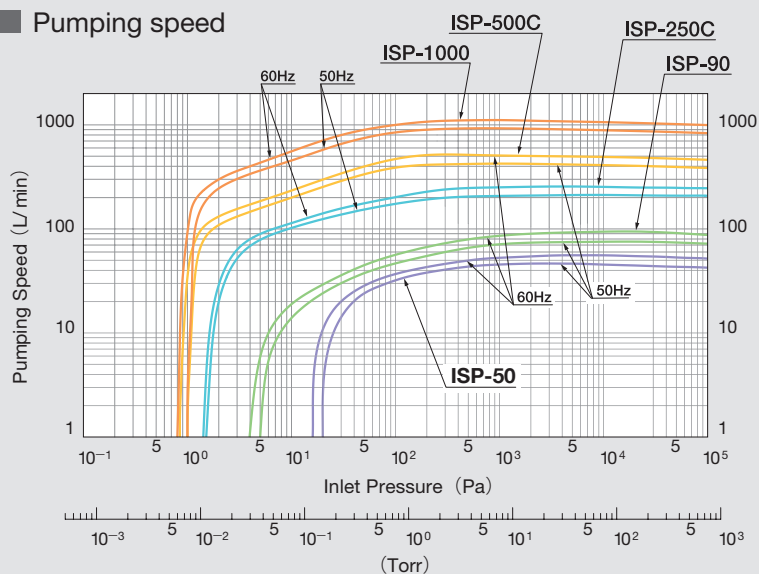


CSA Conformity



CE Conformity

Pumping speed



Air Flush

Air Flush



Purpose of Air Flush
Pumping of humid gas by vacuum pump can cause condensed moisture to remain in pump. This remaining moisture can cause failure to ultimate pressure or pump. Air Flush operation is necessary to remove remaining moisture inside. Air Flush operation also recovers ultimate pressure.

How to select

ISP-500C-T-V

500= Pumping Speed of vacuum pump
T= Three phase
V= Vertical Inlet
S= Single phase
H= Horizontal Inlet

The model name of ISP-1000 is ISP-1000-TVA/THA, ISP-50 is change to ISP-50-SV1; single phase 100V, ISP-50-SV2; single phase 200V

Trade name		Oilfree Scroll Vacuum Pump				
Model		ISP-50	ISP-90	ISP-250C	ISP-500C	ISP-1000E
Pumping speed (50 Hz)	L/min	50	90	250	500	1000
	m ³ /h	3,0	5,4	15,0	30,0	60,0
Ultimate pressure (50Hz)	≦ Pa	20	5	1,6	1	1
	≦ mbar	2,0 × 10 ⁻¹	5,0 × 10 ⁻²	1,6 × 10 ⁻²	1,0 × 10 ⁻²	1,0 × 10 ⁻²
Motor power	kW	0,1	0,15	0,4	0,6	1,4
Voltage	V	AC100V, AC200V, AC 230V				-
	Three phase	-	-	200,208,230,380,450,460		-
Noise level	dB(A)	48 (at air flush 57)	52 (at air flush 57)	58 (at air flush 66)	60 (at air flush 68)	67 (at air flush 74)
Weight	Kg	12	14	25	44	-
	Three phase	-	-	23	38	56
Leak tightness	Pa • m ³ /s	≦ 1 × 10 ⁻⁷	≦ 1 × 10 ⁻⁵			
Water Vapor Capacity	g/day	3 (at air flush)	5 (at air flush)	25 (at air flush)		
Air flush	L/min	4	9	10		
Inlet connection	NW	25			40	
Outlet connection	NW	16			25	40
Cooling system		air-cooled				
Ambient temperature	°C	5~40				10~40

● Ultimate pressure is measured as total pressure. Noise is measured in an anechoic room.

Applications

Synchrotron Facility

Evacuation units for beamlines in Synchrotron and Accelerator Facilities



High Vacuum Pumping System

Roughing pump for Turbo Molecular Pump and Mechanical Booster Pump



- Sputtering equipment, Vacuum deposition equipment, Ion plating equipment
- Gas recovery devices
- Vacuum equipment
- Leak detectors
- Device handling system

- Surface modification, Electron beam process
- Vacuum furnace, Heat treatment furnace
- Laboratory use
- Vacuum packaging machine
- Others

DRY SCROLL VACUUM PUMP



Single Phase Motor



Three Phase Motor



RoHS Conformity



CSA Conformity



CE Conformity

DVSL-100C



Single Phase Motor



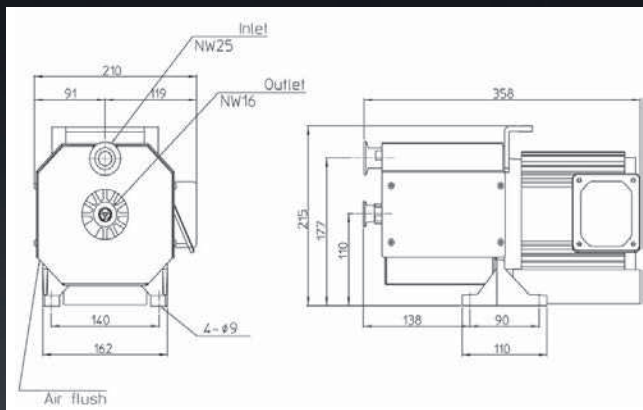
RoHS Conformity



CSA Conformity



CE Conformity



DVSL-500E/501E



Three Phase Motor



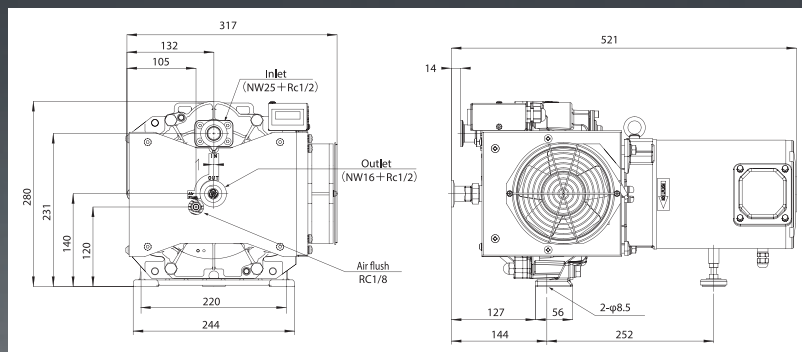
RoHS Conformity



CSA Conformity



CE Conformity



DVSL-501E-HC



Three Phase Motor



RoHS Conformity



CE Conformity



Introducing the HC model with increased durability in DVSL series! It lasts three-times longer than the standard model, thanks to the specialized finishing which is applied to the sliding surface. It is highly recommended to end-users who process water vapor frequently.

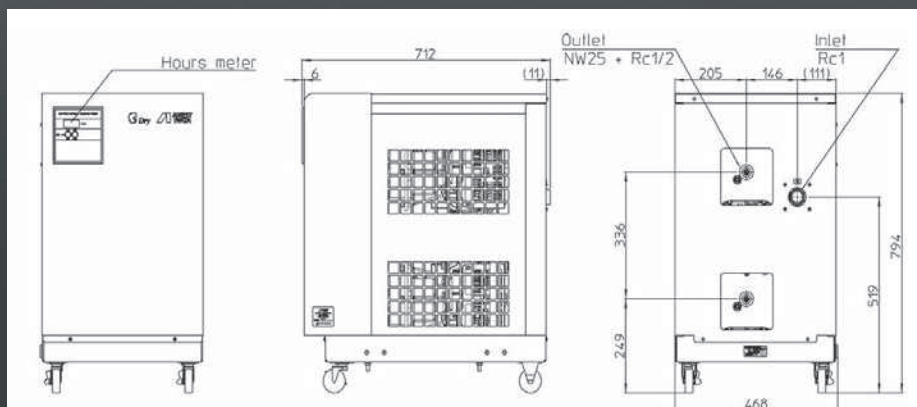
■ Product dimensions are the same as the DVSL-501C.

• Numbers and values are comparison to our current products and reference only. Results are varied depending upon application and condition of use.

DVSL-1002E



Three Phase Motor



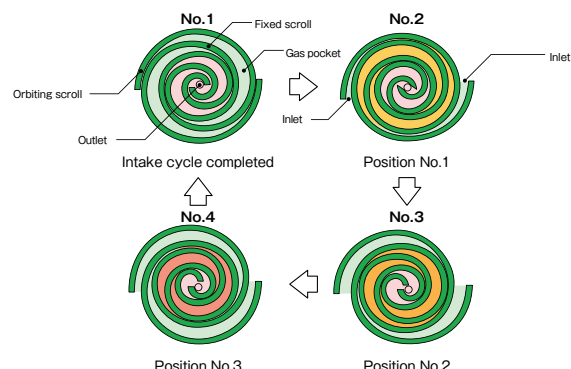
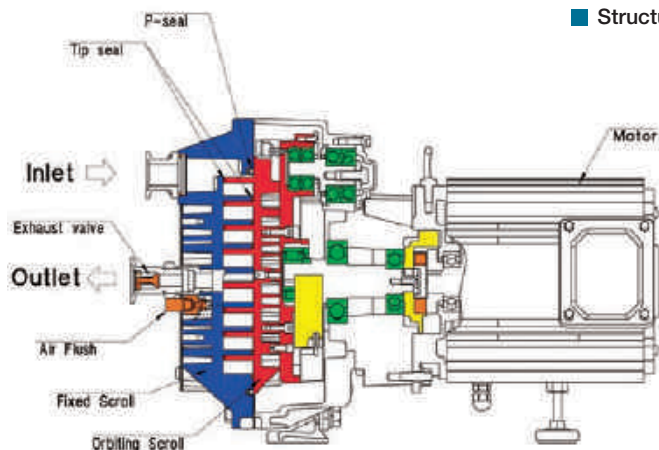
DRY SCROLL VACUUM PUMP

Excellence in continuous operation between atmosphere and vacuum and in displacing water vapor.

Application

- Vacuum Chuck
- Vacuum Transport
- Vacuum Forming
- Cryopump Regeneration
- Leak Test
- Roughing for TMP
- Deaerator
- Gas Substitution
- Vacuum Drying
- Vacuum Packing

Structure



Principle of compression

As the orbiting scroll orbits as shown in the illustration from No.1 position to No.4 position, crescent shaped gas pockets are gradually reduced. At the last stage, compressed gas is exhausted through the center port.

Air Flush

Purpose of Air Flush

Pumping of humid gas by vacuum pump can cause condensed moisture to remain in pump. This remaining moisture can cause failure to ultimate pressure or pump.

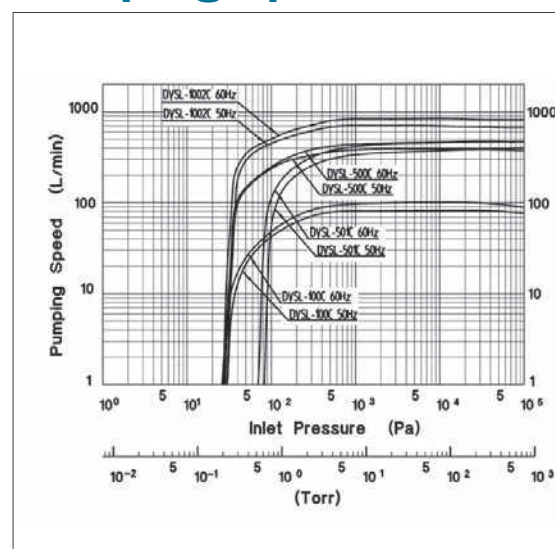
Air Flush operation is necessary to pump remaining moisture inside the pump.

Air Flush operation dose not only pump remaining moisture but also recovers ultimate pressure.

Specifications

Trade name		Oilfree Scroll Vacuum Pump			
Model		DVSL-100C	DVSL-500E	DVSL-501E	DVSL-1002E
Pumping speed (50 Hz)	L/min	100	430	430	845
	m ³ /h	6,0	25,8	25,8	50,7
Ultimate pressure (50Hz)	≅ Pa	50	30	100	30
	≅ mbar	5,0 × 10 ⁻¹	3,0 × 10 ⁻¹	1,0 × 10 ⁻¹	3,0 × 10 ⁻¹
Motor power	kW	0,3	0,9	0,9	2,4
Voltage	Single phase	100,115,200,230	-	-	-
	Three-phase	-	200,208,230,380,400,415,460	-	200,220
Noise level	dB(A)	≅ 62 (at air flush 65)	≅ 64 (at air flush 69)	-	≅ 69 (at air flush 74)
Weight	Single phase	15	-	-	-
	Three-phase	-	36	-	118
Water vapor	g/day	100 (at air flush)	250 (at air flush)	-	500 (at air flush)
Air flush	L/min	5 (at air flush)	10 (at air flush)	-	20 (at air flush)
Inlet connection	NW	NW25 (with Rc 3/8)	NW25 (with Rc 1/2)	-	Rc 1
Outlet connection	NW	NW16 (with Exhaust valve)	NW25 (with Exhaust valve)	-	-
Cooling system		air-cooled			
Ambient temperature	°C	5~40			
Back-up material		Fluorine rubber	Silicon rubber	Fluorine rubber	Silicon rubber

Pumping speed



- Pumping speed of DVSL-501C-HC is the same as the DVSL-501C.

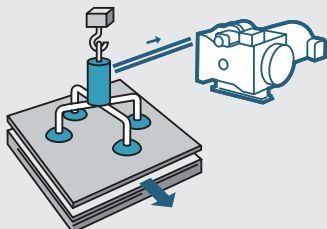
VACUUM EQUIPMENT APPLICATIONS

Vacuum equipment of Anest Iwata are utilized in various applications.

01

Pick and Place [DVSL]

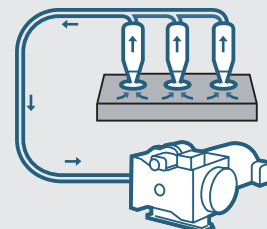
Conveying workpiece and utilizing a pressure difference with suction pad.



02

Vacuum Chuck [DVSL]

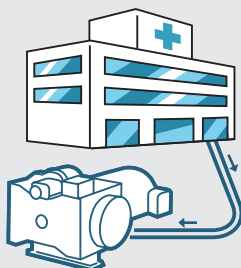
Chucking a workpiece by pressure difference. Suitable for distorted surface, soft, thin film and small objects.



03

Medical [ISP/DVSL]

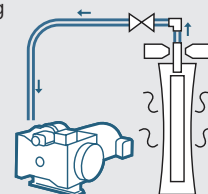
Used for various applications. Cancer therapy system, Sterilization and aspirator in the hospital etc.



04

Vacuum drying [DVSL]

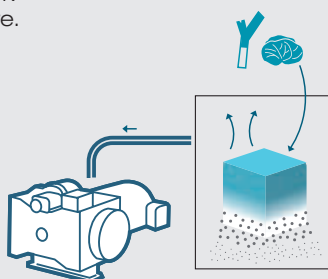
Removing unnecessary components from the work (workpiece) using vacuum pressure. It is used for delicate material against heating and complex shape. For example ... Removing washing water from mechanical parts, Removing absorbed water molecular from resin pellets, and centrifugal system for chemicals etc.



05

Vacuum-freeze drying [DVSL]

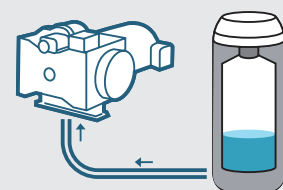
Sublimating frozen work under vacuum pressure. For example ... instant coffee, dry food, etc.



06

Vacuum heat insulation [DVSL]

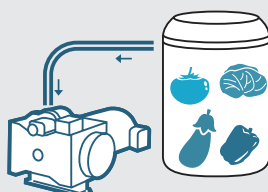
Vacuum is suitable for heat-insulation as it doesn't cause heat conduction. For example ... Vacuum heat insulation sheet, thermos etc.



07

Vacuum impregnation [DVSL]

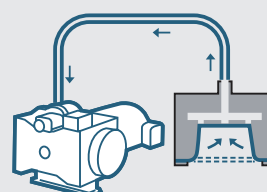
Penetrating the seasoning to groceries using a vacuum pressure. The mechanical components are utilized to infiltrate the adhesive.



08

Vacuum Forming [DVSL]

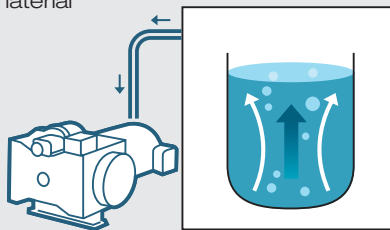
Using a vacuum pressure to the molding resin materials.



09

Degassing [DVSL]

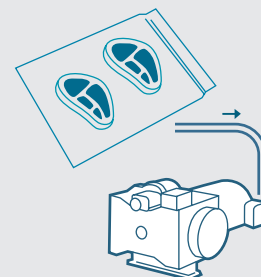
Contained gases are sucked from the material using a vacuum pressure.



10

Vacuum packaging [DVSL]

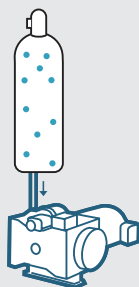
Sucking the air from the sealed bag to prevent deterioration of the food and workpiece.



11

Gas recovery devices [ISP/DVSL]

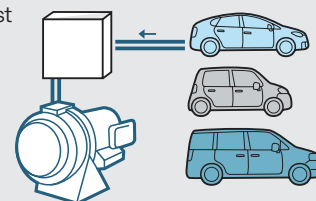
Make it easier to fill the gas to the container which is under vacuum pressure. It is also used to recover the gases, which are the rare gas and the effective gas to the environment (ISP series).



12

Exhaust gas inspection [ISP]

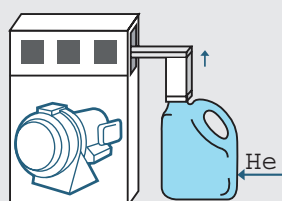
It is used for the inspection of particulate contained in the exhaust gas of automobiles.



13

Leak detectors [ISP/DVSL]

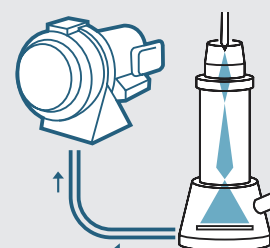
Checking the leakage of containers by pressure change during the certain time under the vacuum pressure. Leak tight pump is needed for Helium leak tester to prevent the influence of background (ISP series).



14

Electron microscope [ISP]

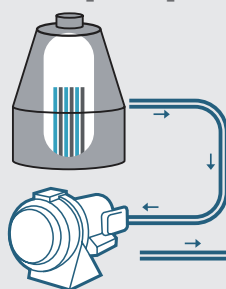
The vacuum pressure is needed in the chamber when the sample is scanned by shot electron beam.



15

Vacuum heat treatment [ISP]

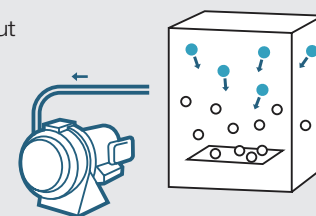
Preventing the oxidation and removing absorbed gas for heat treatment under the vacuum pressure.



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Sputtering [ISP]

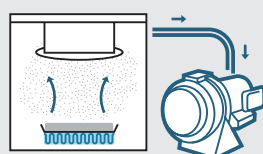
Deposit metal on a surface by using fast ions to eject particles out of it from a target.



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Evaporation deposition [ISP]

Deposit metal on a surface by heating a target in vacuum chamber.



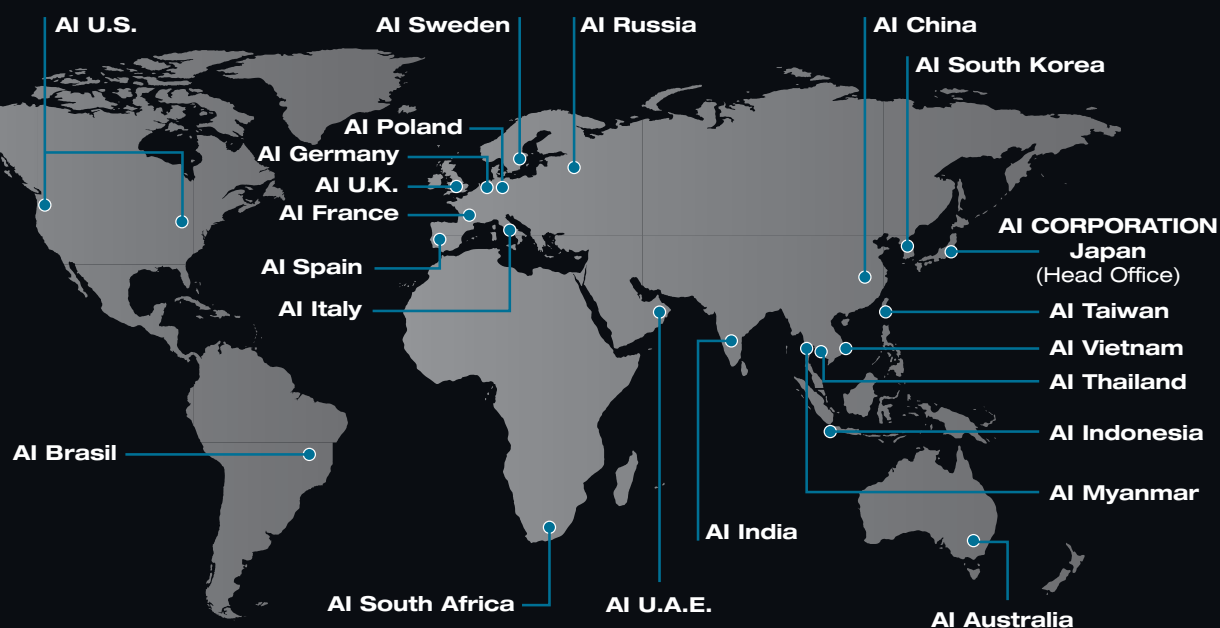
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Accelerator • Synchrotron [ISP]

By creating clean vacuum condition, we are supporting world's cutting-edge technologies such as accelerator and particle physics.



ANEST IWATA GLOBAL NETWORK



ANEST IWATA EUROPE GmbH

Am Stahlbügel 2 - D-74206 Bad Wimpfen - Germany
Tel. +49 (0) 7036-933 670 - Fax +49 (0) 7063-933 6719
website : <https://www.anest-iwataat.com/>
Email : info@anest-iwataat.com

Headquarters in Japan:

ANEST IWATA Corporation

3176, Shinyoshida-cho, Kohoku-ku,
Yokohama 223-8501, Japan
aijhonbu@anest-iwata.co.jp

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