OILFREE SCROLL COMPRESSOR CATALOGUE

The Air of Trust

ANEST IWATA

ONLY NUMBER ONE ANEST IWATA
GLOBAL ONE

Simplex Scroll Compressors

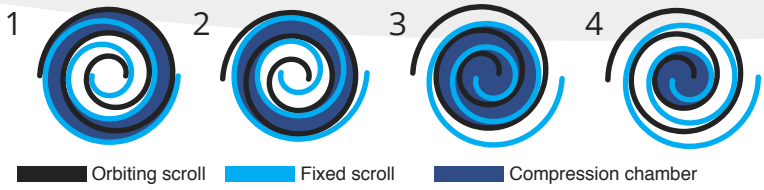
Multiplex Scroll Compressors

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

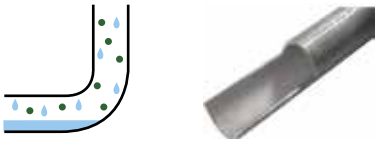
TÜV (independent third party test house) has just certified that the air quality from our oilfree scroll compressors is in conformity with “Class 0 (ISO8573-1:2010[-:-:0])“.

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

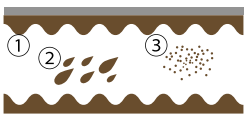
INSIDE THE PIPING OF AN OILFREE COMPRESSOR



Scroll Compression Principle

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/m³
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

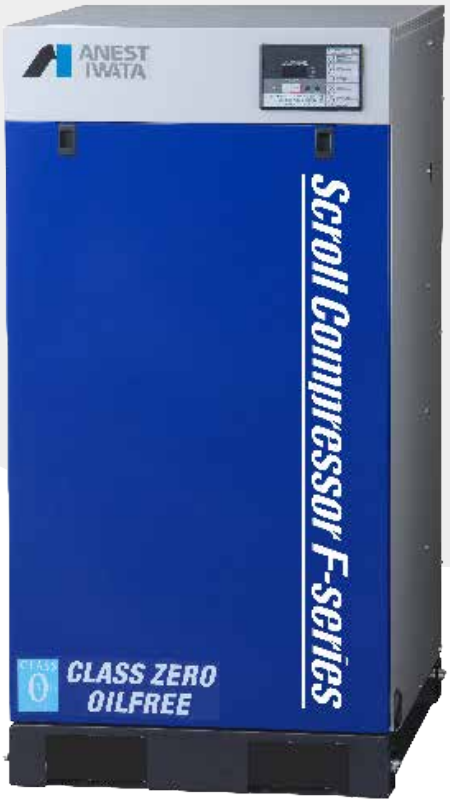
Simplex Oilfree Scroll Compressors

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

SLPA-15(1)E-37(1)E

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



SLPA-55(1)F-75(1)F

Laboratories

Dental Clinics

*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.
SLPA-551F and SLPA-751F coming soon.

Multiplex Oilfree Scroll Compressors

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

Features

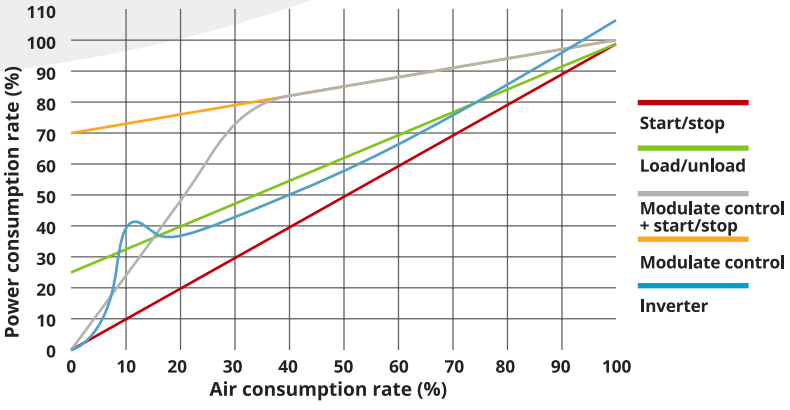
- Multi Stage Control for energy conservation
- Class Zero oilfree air
- 10.000 hrs. maintenance free for 8 ba model*3
- IE3 premium efficiency motor
- Touch panel for monitoring running conditions
- Low noise level
- Low vibration

Multi-stage Scroll Compressor

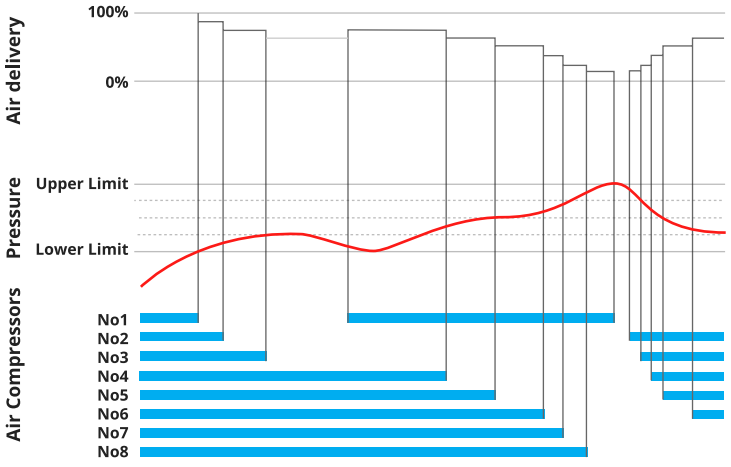
Food Factory

Semiconductor Development

Difference in power consumption rate by control method



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



*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

List of Technical Specifications

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8 bar models

Modal	Power		Operation Control	Max. Working Pressure		FAD		Noise Level	Connection	Net Dimensions (w x d x h)	Net Weight	Tank capacity	Voltage
	kW	HP		bar	MPa	L/min	m3/h	dB(A)	size	mm	kg	L	Volt/Hz/Pha
SLPA-15EB	1.5	2	Pressure switch	8	0.8	155	9.3	54	Rc 3/8	537x483x875	95	20	415/50/3
SLPA-22EB	2.2	3				243	14.5	58			95	20	
SLPA-37E	3.7	5				404	24.2	59		545x622x1058	134	35	
SLPA-55E	5.5	7.5				647	38.8	55	Rc 3/4	650x955x1195	245		
SLPA-75E	7.5	10				808	48.8	57			260		
SLPA-110E	11	15				1211	72.6	60			330		
SLPA-150E	15	20				1615	96.8	61	Rc1	650x955x1555	425		
SLPA-220E	22	30				2422	145	64	Rc1 1/2	1400x1140x1640	900		
SLPA-300E	30	45				3230	194	65			1050		

10 bar models

Modal	Power		Operation Control	Max. Working Pressure		FAD		Noise Level	Connection	Net Dimensions (w x d x h)	Net Weight	Tank capacity	Voltage
	kW	HP		bar	MPa	L/min	m3/h	dB(A)	size	mm	kg	L	Volt/Hz/Pha
SLPA-151EB	1.5	2	Pressure switch	10	1.0	119	7.1	55	Rc 3/8	537x483x875	95	20	415/50/3
SLPA-221EB	2.2	3				207	12.4	59			95	20	
SLPA-371E	3.7	5				337	20.2	59		545x622x1058	134	35	
SLPA-551E	5.5	7.5				544	32.6	56	Rc 3/4	650x955x1195	245		
SLPA-751E	7.5	10				674	40.4	58			260		
SLPA-1101E	11	15				1009	60.5	60			330		
SLPA-1501E	15	20				1346	80.8	62	Rc1	650x955x1555	425		
SLPA-2201E	22	30				2018	121.1	66	Rc1 1/2	1400x1140x1640	900		
SLPA-3001E	30	45				2692	161.5	66			1050		

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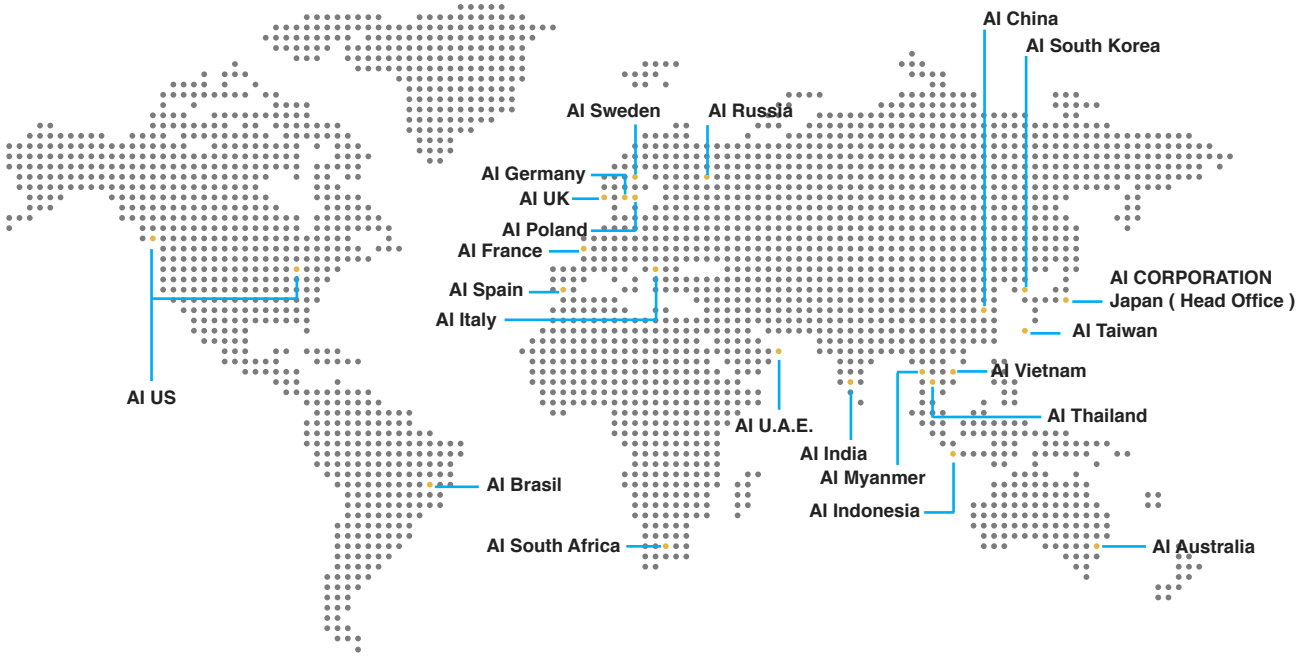
GLOBAL NETWORK



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