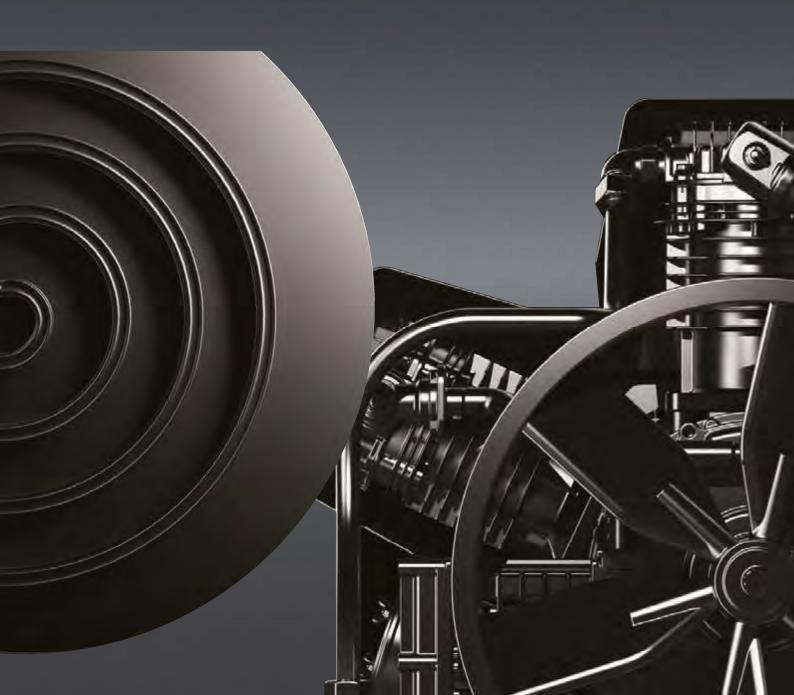
Oil-free compressors A ANEST WATA

Simplex scroll compressors
Multiplex scroll compressors
Oil-free piston compressors





The Air of Trust



ANEST ANEST IWATA





Associated products and their installation

Yokohama, Japan

Bad Wimpfen, Germany

Location of the company in Europe	Bad Wimpfen, Germany
0	Valabana laasa
Company headquarters	Yokohama, Japan
Signing of the company contract	May 1, 1926
Initial public offering	Tokyo Stock Exchange in 1973
Capital	approx. 25,000,000 EUR
Accounting period	April 1 - March, 31
Number of employees	approx. 1,800 (more than 60 % outside Japan)
Main business	Air compressors and associated products
	Spray painting equipment
	Vacuum pumps and associated products
	Equipment for the application of liquids

CONTENTS



Oil-free scroll compressors

<u>see page 4 – 9</u>

Simplex scroll compressors Multiplex scroll compressors



Oil-free piston compressors

Oil-free piston compressors

THE MOST ADVANCED TECHNOLOGIES FOR HIGH-QUALITY COMPRESSED AIR

High-precision processing technology is required to manufacture the components of a scroll compressor. Thanks to the experience and know-how accumulated over the past twenty years, we have developed the latest scroll compressors.



Scroll compression principle

As the orbiting scroll moves from position 1 to position 4, the size of the symmetrical, crescent-shaped compression chambers is gradually reduced.

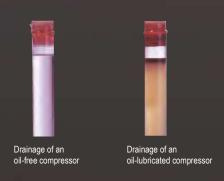
This causes the air contained in them to compress.

This air is then discharged through the central air outlet.



Oil-free drainage

The drainage of oil-lubricated compressors requires special treatment because they contain oil.
Oil-free scroll compressors, on the other hand, are environmentally friendly, their discharge is clean.





Clean

Air from oil-lubricated compressors contains oil and can contaminate the piping.

This does not happen with an oil-free scroll compressor which produces high-quality, clean and oil-free air.

inside the piping of an oil-lubricated compressor





inside the piping of an oil-free compressor





TÜV (independent technical inspection authority in Germany) has certified that the air quality of our oil-free scroll compressors complies with "Class 0 (ISO 8573-1:2010[-:-:0])".



What is Class Zero?

ISO 8573-1 (JIS B8392-1) specifies quality classes for compressed air. Class Zero indicates that liquid oil, oil mist and oil vapor are not present. Since oil vapor in particular cannot be absorbed by conventional air filters, it is important that Class Zero compressors are used in factories where clean air is required.

class	oil concentration mg/m³
0	as specified by the user or supplier of the equipment and better than Class 1
1	≦ 0.01
2	≦ 0.1
3	≦1
4	≦5



1 liquid oil 3 oil steam

SIMPLEX OIL-FREE SCROLL COMPRESSORS

49 dB (A)

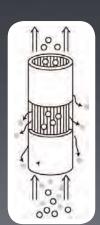
0.75 kW (1 HP)

Features

- 8.000 hours free of maintenance *3
- · Class Zero oil-free air
- Low noise level
- Low vibration
- Compact size
- Wheels for easy transportation
- Model with membrane dryer is available









• SLPE-07E

Principle of membrane

Features of the membrane dryer

- Environmentally friendly
- Purging function



rollers ensure a better mobility



scroll air end (1HP) dryer (direct drive)



air receiver made of aluminium (with anti-corrosion coating)



membrane dryer

Modell	Pow	/er	Operation control	Operating pressure	FA! (*1		Noise level (*2)	Outlet	Dryer pressure dew point	Tank capacity	Dimensions (w x d x h)	Weight	Voltage
	kW	£		Max.bar	L/min	m³/h	dB (A)	Größe	${\mathbb C}$	L	mm	kg	V / Hz
SLPE-07E	0.75	1	Druck-	0	70	4.2	49	Rc 3/8"	-	5	355 x 590 x 690	50	230 / 50
SLPE-07ED	0.75	_ '	schalter	0	60	3.6	7	[ball valve]	15	(internal)	355 x 660 x 690	52	230 / 30

^{*1} FAD (Free Air Delivery – flow rate / air volume) is measured at maximum operating pressure.
*2 Noise level measured at a distance of 1 m according to ISO 11201; tolerance ±3 dB.
*3 Except intake filters

<sup>We recommend to install air filters and an external receiver tank after the compressor.
Even with Class Zero compressors, there can be oil in the piping.
This can be caused by the presence of oil in the piping before the compressor is installed or by an accident during the production process.</sup>

Dimensions do not include mounting parts.

Dimensions can be modified without prior notice if required because of design changes.

SIMPLEX OIL-FREE SCROLL COMPRESSORS

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

Features

- 10,000 maintenance-free operating hours *3
- Class Zero oil-free air
- IE3 motor with high efficiency
- Control panel for easy working with the 5.5 / 7.5 kW models
- Low noise level
- Minimal vibrations



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

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

8 bar models

	Model	Po	wer	Operation control	Operating FAD pressure (*1)		Noise level (*2)	Outlet	Dimensions (w x d x h)	Weight	Tank capacity	Voltage	
		kW	£		Max.bar	L/min	m³/h	dB (A)	Size	mm	kg	L	V / Hz
	SLPE-15E	1.5	2	pressure		155	9.3	54			80		230 / 50
	SLPE-22E-T	2.2	3	switch		243	14.6	56	Rc 3/8"	535 x 685 x 745	85		
standard	SLPE-37E	3.7	5	SWILCH		404	24.2	59			105	-	400 / 50
	SLPE-55F	5.5	7.5	pressure		596	35.8	55	Rc 3/4"	605 x 970 x 1.195	205		400750
	SLPE-75F	7.5	10	sensor		808	48.5	57	NC 3/4	003 X 970 X 1, 193	210		
	SLPE-15E-90/270	1.5	2	procure	8	155	9.3	56		775 4 4 5 4 4 2 4 0	150 / 200		230 / 50
with tank	SLPE-22E-T-90/270	2.2	3	pressure switch		243	14.6	61	Rc 1/2"	775 x 1,454 x 1,340 557 x 1,476 x 1,430	155 / 205	90 / 270	400 / 50
	SLPE-37-90/270	3.7	5	SWILCH		404	24.2	59		337 X 1,470 X 1,430	175 / 225		400730
ith toul	SLPE-15ED-90/270	1.5	2			155	9.3	57		775 4 4 5 4 4 2 4 0	175 / 225	90 / 270	230 / 50
with tank	SLPE-22E-TD-90/270	2.2	3	pressure switch	1 1	234	14.6	63	Rc 1/2"	775 x 1,454 x 1,340	180 / 230		400 / 50
with dryer	SLPE-37ED-90/270	3.7	5	SWILCH		404	24.2	60		557 x 1,476 x 1,430	200 / 250		400/50

10 bar models

	Model	Power		Operation control	Operating FAD pressure (*1)		Noise level (*2)	Outlet	Dimensions (w x d x h)	Weight	Tank capacity	Voltage	
		kW	HP		Max.bar	L/min	m³/h	dB (A)	Size	mm	kg	L	V / Hz
	SLPE-151E	1.5	2	pressure		119	7.1	55			80		230 / 50
	SLPE-221E-T	2.2	3	switch		207	12.4	57	Rc 3/8"	535 x 685 x 745	85		
standard	SLPE-371E	3.7	5	SWILCH		337	20.2	59			105	-	400 / 50
SL	SLPE-551F	5.5	7.5	pressure		435	26.1	59	Rc 3/4"	605 x 970 x 1,195	205		400730
	SLPE-751F	7.5	10	sensor		665	39.9	61	IXC 3/4		210		
	SLPE-151E-90/270	1.5	2	process	10	119	7.1	58		775 4454 4040	150 / 200	90 / 270	230 / 50
withtank	SLPE-221E-T-90/270	2.2	3	pressure switch		207	12.4	57	Rc 1/2"	775 x 1,454 x 1,340 557 x 1,476 x 1,430	155 / 205		400 / 50
	SLPE-371-90/270	3.7	5	SWILCH		337	20.2	62		337 X 1,470 X 1,430	175 / 225		400 / 50
with toul	SLPE-151ED-90/270	1.5	2			119	7.1	59	Rc 1/2"	775 4 4 5 4 4 2 4 0	175 / 225		230 / 50
withtank	SLPE-221E-TD-90/270	2.2	3	pressure switch		207	12.4	58		775 x 1,454 x 1,340 557 x 1,476 x 1,430	180 / 230		400 / 50
withdryer	ith dryer SLPE-371ED-90/270 3		5	Switch		337	20.2	66		337 X 1,476 X 1,430	200 / 250		400 / 50

- * 1 FAD (Free Air Delivery flow rate / air volume) is measured at maximum operating pressure.
 * 2 Noise level measured at a distance of 1 m according to ISO 11201; tolerance ±3 dB.
 * 3-1 Except intake filters

- 3-2 5,000 operating hours with 10 bar models and 8,000 operating hours with 5.5 kW and 7.5 kW models

 We recommend to install air filters and an external receiver tank after the compressor.
- Even with Class Zero compressors, there can be oil in the piping.

 This can be caused by the presence of oil in the piping before the compressor is installed or by an accident during the production process.

Adsorption dryer is also available

Multiplex oil-free scroll compressors

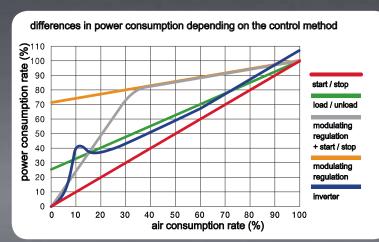
11 kW (15 HP) - 30 kW (40 HP)

Features

- Multi-stage control system to save energy
- Class Zero oil-free air
- 10,000 maintenance-free operating hours with the 8 bar models *3
- · IE3 motor with high efficiency
- · Touch screen for monitoring running conditions
- · Low noise level
- Minimal vibrations



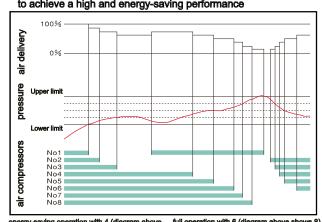






multi-stage scroll compressor

operation of a multi-stage control system to achieve a high and energy-saving performance



energy-saving operation with 4 (diagram above shows 8) compressors when consumption is low

full operation with 6 (diagram above shows 8)





8 bar models

Model	Power		Operation control	Operating pressure	FA (*		Noise level (*2)	Outlet	Dimensions (w x d x h)	Weight	Voltage
	kW	HP	COTILTOI	Max. bar	L/min	m³/h	dB (A)	Size	mm	kg	V / Hz
SLPE-110E	11 (3 x 3.7)	15.0			1,2 11	73	59	Rc 1"	655 x 960 x 1.555	365	
SLPE-150E	15 (4 x 3.7)	20.0	pressure	8	1,615	96.9	61	KC I	000 X 900 X 1,000	435	400 / 50
SLPE-220E	22 (6 x 3.7)	30.0	sensor	O	2,422	145	64	Rc 1-1/2"	1,370 x 955 x 1,555	745	400 / 30
SLPE-300E	30 (8 x 3.7)	40.0			3,230	194	67	IXC F1/2	1,370 X 933 X 1,333	885	

10 bar models

Model	Power		Operation control	Operating pressure	FA (*		Noise level (*2)	Outlet	Dimensions (w x d x h)	Weight	Voltage
	kW	H	COTILTO	Max. bar	L/min	m³/h	dB (A)	Size	mm	kg	V / Hz
SLPE-1101E	11 (3 x 3.7)	15.0			1,009	61	60	Rc 1"	655 x 960 x 1,555	365	
SLPE-1501E	15 (4 x 3.7)	20.0	pressure	10	1,346	80.8	62	IXC I	030 X 900 X 1,333	435	400 / 50
SLPE-2201E	22 (6 x 3.7)	30.0	sensor	IU	2,018	2,018 121 66 Rc 1-1/2" 1,370 x 955 x 1,555	1,370 x 955 x 1,555	745	400/30		
SLPE-3001E	30 (8 x 3.7)	40.0			2,692	162	65	IXC F1/Z	1,370 X 933 X 1,333	885	7 <i>I</i>

- FAD (Free Air Delivery flow rate / air volume) is measured at switch-on pressure.
- 2 Noise level measured at a distance of 1 m according to ISO 11201; tolerance ±3 dB 3-1 Except intake filters

- 3-1 Except minute minutes 3-2 5,000 operating hours with 10 bar models

 We recommend to install air filters and an external receiver tank after the compressor.
- Even with Class zero compressors, there can be oil in the piping.

 This can be caused by the presence of oil in the piping before the compressor is installed or by an accident during the production process.

LIST OF TECHNICAL SPECIFICATIONS

8 bar models

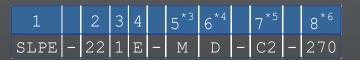
	Model	Pov	wer	Operation control	Operating pressure	F <i>A</i> (*		Noise level (*2)	Outlet	Dimensions (w x d x h)	Weight	Tank capacity	Voltage	
		kW	HP		M ax. bar	L/min	m³/h	dB (A)	Size	mm	kg	L	V / Hz	
	SLPE-07E	0.75	1.0			70	4.2	49		355 x 590 x 690	50	5	230 / 50	
	SLPE-07ED	0.75	1.0	pressure		60	3.6	43	l	355 x 660 x 690	52	(intern)		
	SLPE-15E	1.5	2.0	switch		155	9.3	54	Rc 3/8		80			
	SLPE-22E-T	2.2	3.0	SWITCH		243	14.6	56	1	535 x 685 x 745	85			
	SLPE-37E	3.7	5.0			404	24.2	59			105			
standard	SLPE-55F	5.5			8	8	596	35.8	55	Rc 3/4	605 x 970 x 1,195	205		400 / 50
	SLPE-75F	7.5	10.0			808	808 48.5	57	Rc 1	003 X 970 X 1, 193	210	-	400 / 50	
	SLPE-110 E *	11.0	15.0	pressure		1,211	73	59		655 x 960 x 1,555	365			
	SLPE-150 E *	15.0	20.0	sensor			1,615	96.9	61	IXC I	030 X 900 X 1,333	435		
	SLPE-220E *	22.0	30.0			2,422	145	64	Rc 1-1/2	1.370 x 955 x 1.555	745			
	SLPE-300E *	30.0	40.0			3,230	194	67	IC FVZ	1,370 X 930 X 1,300	885			
	SLPE-15E-90/270	1.5	2.0			155	9.3	56		775 4 454 4240	150 / 200		230 / 50	
*1 with tank	SLPE-22E-T-90/270	2.2	3.0	pressure	8	243	14.6	58	Rc 1/2	775 x 1,454 x 1,340	155 / 205	90 / 270	400 / 50	
	SLPE-37E-90/270	3.7	5.0	switch		404	24.2	61	1	557 x 1,476 x 1,430	175 / 225		400 / 50	
*4 31 4 1	SLPE-15ED-90/270	1.5	2.0			155	9.3	57		775 4454 4040	175 / 225		230 / 50	
*1 with tank	SLPE-22E-TD-90/270	2.2	3.0	pressure	8	243	14.6	59	Rc 1/2	775 x 1,454 x 1,340	180 / 230		400 / 50	
'2 with drver	SLPE-37ED-90/270	3.7	5.0	switch		404	24.2	62		557 x 1,476 x 1,430	200 / 250		400 / 50	

10 bar models

	Model	Power		Operation control	Operating pressure		AD *1)	Noise level (*2)	Outlet	Dimensions (w x d x h)	Weight	Tank capacity	Voltage																				
		kW	HP		Max.bar	L/min	m ³ /h	dB (A)	Size	mm	kg	L	V/Hz																				
	SLPE-151E	1.5	2.0	proceuro		119	7.7	55			80		230 / 50																				
	SLPE-221E-T	2.2	3.0	pressure switch		207	12.4	57	Rc 3/8"	535 x 685 x 745	85																						
	SLPE-371E	3.7	5.0	SWILCH		337	20.2	59			105																						
	SLPE-551F	5.5	7.5			435	26.1	59	Rc 3/4"	605 x 970 x 1.195	205																						
standard	SLPE-751F	7.5	10.0		10	10	10	10	10	10	10	10	10	10	10	665	39.9	61	100 3/4	003 X 970 X 1, 193	210	-	400 / 50										
	SLPE-1101E *	11.0	15.0	pressure sensor		1,009	61	60	Rc 1"	655 x 960 x 1,555	365		400730																				
	SLPE-150 1E *	15.0	20.0			1,346	80.8	62			435																						
	SLPE-2201E *	22.0	30.0			2,018 121	66	Rc 1-1/2"	1,370 x 955 x 1,555	745		i !																					
	SLPE-3001E *	30.0	40.0			2,692	162	65	RC FV2	1,370 X 933 X 1,333	885																						
	SLPE-151E-90/270	1.5	2.0			119	7.1	57		775 4 454 4 2 4 0	150 / 200		230 / 50																				
*1 with tank	SLPE-221E-T-90/270	2.2	3.0	pressure switch	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	207	12.4	59	Rc 1/2"	775 x 1,454 x 1,340 557 x 1,476 x 1,430	155 / 205	90 / 270	400 / 50
	SLPE-371E-90/270	3.7	5.0	SWILCH		337	20.2	63		337 X 1,470 X 1,430	175 / 225		400730																				
*1 with tank	SLPE-151ED-90/270	1.5	2.0			119	7.1	58		775 4 4 5 4 4 2 4 0	175 / 225		230 / 50																				
	SLPE-221E-TD-90/270	2.2	3.0	pressure switch	10	207	12.4	60	Rc 1/2"	2" 775 x 1,454 x 1,340 557 x 1,476 x 1,430	180 / 230	90 / 270	400 / 50																				
^2 with driver —	SLPE-371ED-90/270	3.7	5.0			337	20.2	66			200 / 250		400 / 50																				

FAD (Free Air Delivery – flow rate / air volume) is measured at maximum operating pressure.
*FAD Mulitplex is measured at switch-on pressure.
Dimensions do not include mounting parts.
* Dimensions can be modified without prior notice if required because of design changes.





1	Model	SLPE	Oil-free scroll compressor				
		07	0.75 kW / 1HP				
		15	1.5 kW / 2 HP				
		22	2.2 kW / 3 HP				
		37	3.7 kW / 5 HP				
2	Power	55	5.5 kW / 7,5 HP				
_	1 0 W CI	75	7.5 kW / 10 HP				
		110	11 kW / 15 HP				
		150	15 kW / 20 HP				
		220	22 kW / 30 HP				
		300	30 kW / 40 HP				
3	Max. pressure	blank	8 bar				
	Wax. procedu	1	10 bar				
4	Series	E	E-series				
	201100	F	F-series				
5 *3	Phase	M	one phase, 230 V / 50 Hz				
		Т	three phases, 400 V / 50 Hz				
		blank	without dryer				
6	Dryer	D *4	with refrigeration dryer				
		D2 *4	with adsorption dryer				
		blank	control by				
		DIGITIK	switch				
7	Control	C2*5	control by				
	CONTO	02	controller				
		C3*5	control by				
			controller with IOT				
		blank without tank					
8	Tank	90 *6 with 90 L tank					
		270 *6	with 270 L tank				

*3 : only 2.2 kW model *4 *5 *6 : only 1.5 & 2.2 & 3.7 kW models

9

^{*1 -} horizontal tank, galvanized inside and outside *2 - refrigeration dryer or adsorption dryer

OIL-FREE RECIPROCATING COMPRESSORS

In 1979 we developed a wide range of oil-free pendulum compressors, the technology of which we have been improving ever since. They are characterized by advantages that are unique to us, such as composite resin pistons and high pressure as well as a long service life.

FEATURES:

- Oil-free air
- Composite resin piston
- Long maintenance intervals (10,000 operating hours)
- Long durability for a continuous utilization
- A wide range offer (0.75 kW to 11 kW)
- Two-way cooling system (above 2.2 kW)
- Two stages at 14 bar (above 5.5 kW)



The composite resin piston

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

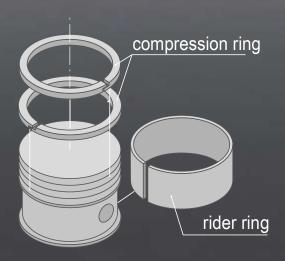
It has excellent wear protection characteristics and can be used permanently at high temperatures.

It eliminated the need for a rider ring, which is essential for conventional oil-free air compressors.

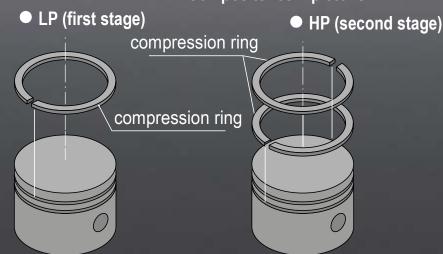
This means that no friction welding or "jamming" is possible, which can often occur in the mechanism of the rider ring.

The compression ring is made of Teflon resin, which has high heat and wear resistance features.

■ Conventional oil-free pistons



■ Composite resin pistons



TFPE SERIES

The oil-free models provide high-quality and clean air.

APPLICATIONS

- food & beverages
- dentistry & medicine
- pharmacy
- laboratories
- paint shops
- agriculture
- fiber industry
- and more



Clean

Air from oil-lubricated compressors contains oil and can contaminate the piping. This does not happen with an oil-free piston compressor which produces high-quality, oil-free air.











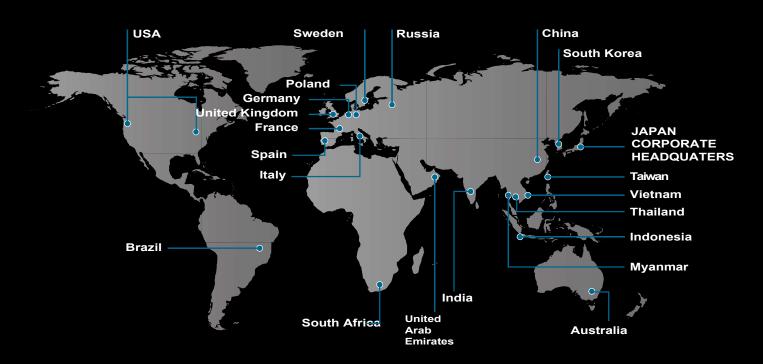
INDICE THE FIFTING OF AN OIL-FALL COMPALOSON

Model	Po	wer	Operation control	Operating pressure	Suction capacity	FAD	Noise level	Outlet	Tank capacity	Weight	Dimensions	Voltage
	kW	윤	COTILITO	Max. bar	L∕min	L/min	dB (A)	Size	L	kg	(w x d x h) mm	V / Hz
TFPE-15-G-50	1.5	2.0		10	270	150	72		50	50	900 x 350 x 750	230 / 50
TFPE-22-G-100	2.2	3.0		10	422	220	73		100	83	1,150 x 370 x 820	400 / 50
TFPE-37-G-200	3.7	5.0	Pressure	10	643	330	80	G 1/2"	200	140	1,500 x 500 x 1,150	400 / 50
TFPE-55-G-270	5.5	7.0	switch	14	750	520	81		270	210	1,550 x 500 x 1,150	400 / 50
TFPE-75-G-270	7,5	10.0		14	1,060	760	82		270	230	1,550 x 580 x 1,200	400 / 50
TFPE-110-G-500	11.0	15.0		14	1.600	1.060	81	1"	500	350	1.980 x 600 x 1.400	400 / 50

Model	Power		Operation control	Operating pressure	Suction capacity	FAD	Noise level	Outlet	Tank capacity	Weight	Dimensions	Voltage
	kW	HP	COMMO	Max.bar	L/min	L/min	dB (A)	Size	L	kg	(w x d x h) mm	V / Hz
BFPE-15-G	1.5	2.0	Pressure	10	270	150	72	G 1/2"	3	30	700 x 400 x 500	230 / 50
BFPE-22-G	2.2	3.0		10	422	220	73		3	55	700 x 400 x 500	400 / 50
BFPE-37-G	3.7	5.0		10	643	330	80		3	90	700 x 400 x 500	400 / 50
BFPE-55-G	5.5	7.0	switch	14	750	520	81		3	145	1,000 x 700 x 800	400 / 50
BFPE-75-G	7.5	10.0		14	1,060	760	82		3	165	1,000 x 700 x 800	400 / 50
BFPE-110-G	11.0	15.0		14	1,600	1,060	81	G 1"	3	225	1,300 x 800 x 800	400 / 50

Dimensions without mounting parts * Dimensions can be modified without prior notice if required because of design changes. FAD (Free Air Delivery – flow rate / air volume) is measured at maximum operating pressure

ANEST IWATA GLOBAL NETWORK





ANEST IWATA EUROPE GmbH

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