



Perfect Solution for  
Compressor in Dental  
Practice...

# DMEGA

Dental Compressor Catalog



# *DMEGA handles all in one processes from manufacture to assembly.*

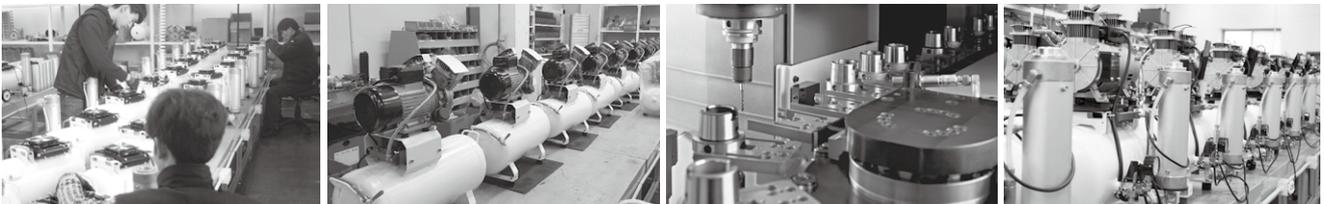
Now it's time to see how we can improve our oil-free compressors.

## Superior Reliability

- Heavy duty block with durable cast cylinders, forged steel connecting rods, and precision machined aluminum pistons.
- Increased efficiency with integrated cooling system and Membrane Dryer. (Moisture removal and air antibacterial function)
- 100% oil free design. No chance of oil bypassing seals to contaminate your compressed air.

## Low maintenance

- DMEGA dental compressor are built for years of reliable service with minimal service requirements.
- Simple installation & easy to clean inlet filter.



## Company History

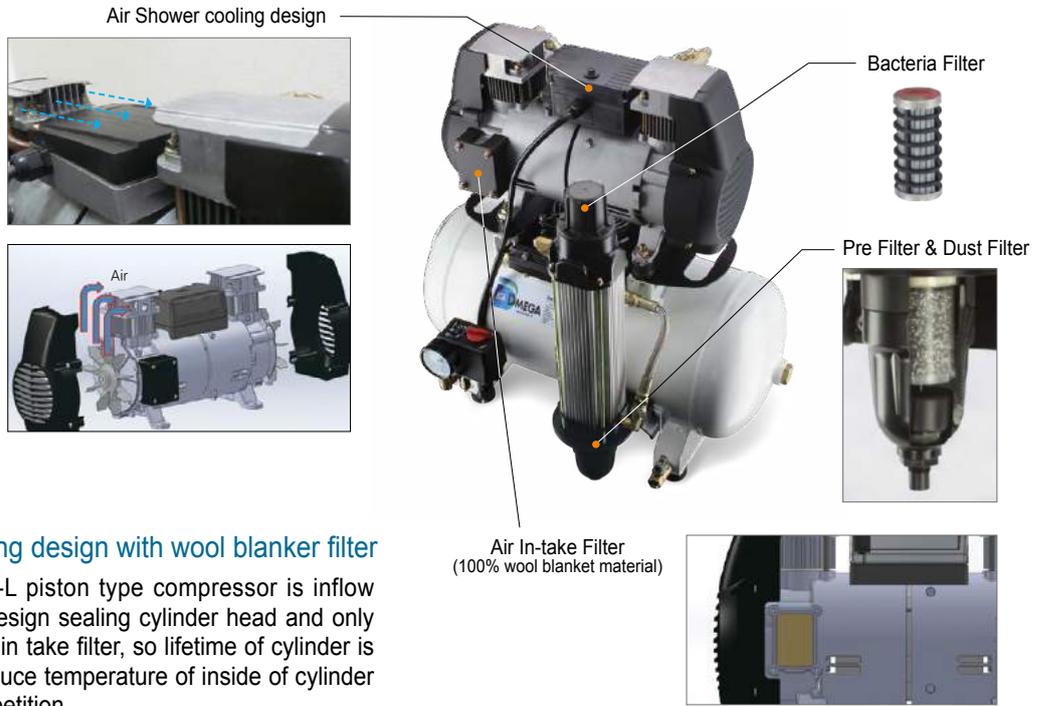
- 1987 ● Started the Dental suction, Compressor, Painting, and Unit Chair repair business.
- 2000 ● Dental compressor, Suction, Airpurification system development and utility model registration.
- 2003 ● Developed 2nd generation air dryer.
- 2010 ● Developed 3rd generation air dryer with water dispersion and air cleaning HEPA filter.
- 2013 ● Development of twin cam application improvement for 2nd generation compressor motor.
- 2014 ● Started to develop with 4stage of filtration.
- 2017 ● Developed and commercialized Twin Head Motor for 3rd generation dental compressors.

## Pump Head of Compressor



## Air Dryer of Compressor





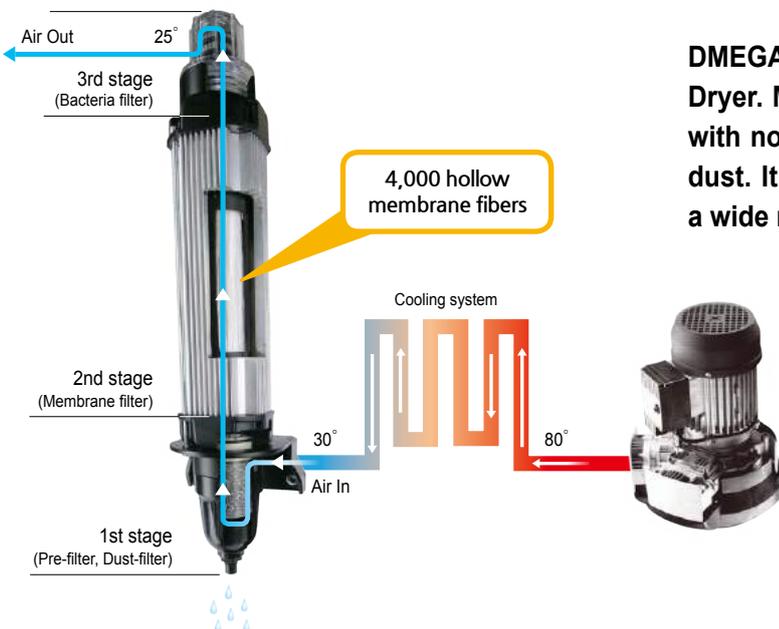
■ **Dust-free cylinder sealing design with wool blanker filter**

Common problem of wob-L piston type compressor is inflow of dust into cylinder. We design sealing cylinder head and only fresh air inflow through Air in take filter, so lifetime of cylinder is high durable, enable to reduce temperature of inside of cylinder compare to any other competition.

■ **Air Shower cooling design**

Motor cooling fan cover extended to cylinder head for cooling down more efficiently.

- Anti-bacteria filter inside air dryer
- Pressure dew point : 0~ -30℃
- Filter size : 0.01℃
- 4,000 hollow membrane fibers
- Purge air nozzle built-in inside



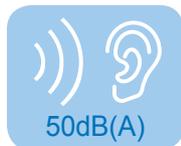
**DMEGA air dryer (Model : MDU500) is a membrane Dryer. Membrane dryer passively produces dry air with no moisture or electrical components, or fine dust. It provides silent and effective operation for a wide range of dental compressed air.**

**Removing the moisture from the compressed air not only prevents costly malfunction compressor and poor air quality, but also keeps maintenance and repair cost to a minimum.**

# Mega-Micro 1

Oil-free compressor for small dental clinic

For  
1 Unit  
Chair



**Mega-Micro 1 C**  
Cabinet type

**Mega-Micro 1**  
Conventional type

DMEGA's Oil-free dental compressor, **Mega-Micro 1** supplies clean air with anticorrosion coated air receiver tank & superior performance air dryer. The dryer and case can be selected according to the conditions, and it is a low-noise small capacity compressors suitable for narrow dental office.

## Specification

( Membrane Dryer ● / General Dryer ○ / No Dryer × )

Model	Code No.	Tank (Liter)	Main Power (V/Hz)		Motor Power (Kw/H.P)		Flow rate 5bar (LPM)	Pressure (Bar)	Size (LxWxH) cm	Weight (kg)	Noise (dB)	Dryer
Mega-Micro 1	CMA1M-241M	24	230	60/75	0.75	1	55/60	5~8	54x40x52	38	65	●
	CMA1M-241D	24	230	60/75	0.75	1	55/60	5~8		38	60	○
	CMA1M-241	24	230	60/75	0.75	1	55/60	5~8		35	60	×
Mega-Micro1 C	CMA1M-051M	5	230	60/75	0.75	1	55/60	5~8	37x78x85	75	50	●
	CMA1M-051D	5	230	60/75	0.75	1	55/60	5~8		75	50	○
	CMA1M-051	5	230	60/75	0.75	1	55/60	5~8		72	50	×

# Mega-Air1

Oil-free dental compressor for 1~2 Unit chairs

For  
1~2 Unit  
Chair



**Mega-Air1 C**  
Cabinet type

**Mega-Air1**  
Conventional type

DMEGA's Oil-free dental compressor, **Mega-Air1** supplies clean air with anti-corrosion coated air receiver tank & superior performance air dryer. The dryer and case can be selected according to the conditions, and cabinet type **Mega-Air1 C** can be operated outside the machine room by reducing operating noise.

## Specification

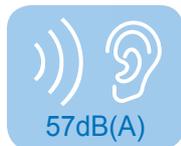
( Membrane Dryer ● / General Dryer ○ / No Dryer × )

Model	Code No.	Tank (Liter)	Main Power (V/Hz)		Motor Power (Kw/H.P)		Flow rate 5bar (LPM)	Pressure (Bar)	Size (LxWxH) cm	Weight (kg)	Noise (dB)	Dryer
Mega-Air1	CMA1-241M	24	230	50/60	0.83	1.1	80/91	5~8	54x40x61	38	65	●
	CMA1-241D	24	230	50/60	0.83	1.1	80/91	5~8		38	65	○
	CMA1-241	24	230	50/60	0.83	1.1	80/91	5~8		35	65	×
Mega-Air1 C	CMA1-051M	5	230	50/60	0.83	1.1	80/91	5~8	37x78x85	75	55	●
	CMA1-051D	5	230	50/60	0.83	1.1	80/91	5~8		75	55	○
	CMA1-051	5	230	50/60	0.83	1.1	80/91	5~8		72	55	×

# Mega-Air2

Oil-free dental compressor for 2 ~3 Unit chairs

For  
2-3 Unit  
Chairs



**Mega-Air2 C**  
Cabinet type

**Mega-Air2**  
Conventional type

DMEGA's Oil-free dental compressor, **Mega-Air2** supplies clean air with anti-corrosion coated air receiver tank & superior performance air dryer. The dryer and case can be selected according to the conditions, and cabinet type **Mega-Air2 C** can be operated outside the machine room by reducing operating noise.

## Specification

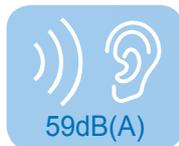
( Membrane Dryer ● / General Dryer ○ / No Dryer × )

Model	Code No.	Tank (Liter)	Main Power (V/Hz)		Motor Power (Kw/H.P)		Flow rate 5bar (LPM)	Pressure (Bar)	Size (LxWxH) cm	Weight (kg)	Noise (dB)	Dryer
Mega-Air2 Micro	CMA2-402M	40	230	50/60	1.5	2	150/162	5~8	63x45x82	52	75	●
	CMA2-402D	40	230	50/60	1.5	2	150/162	5~8		52	75	○
	CMA2-402	40	230	50/60	1.5	2	150/162	5~8		49	75	×
Mega-Air2 C	CMA2-242M	24	230	50/60	1.5	2	150/162	5~8	78x46x97	95	57	●
	CMA2-242D	24	230	50/60	1.5	2	150/162	5~8		95	57	○
	CMA2-242	24	230	50/60	1.5	2	150/162	5~8		92	57	×

# Mega-Air3

Oil-free dental compressor for 3 ~5 Unit chairs

For  
3-5 Unit  
Chairs



**Mega-Air3 C** Cabinet type  
3 PHASE

**Mega-Air3** Conventional type  
3 PHASE

DMEGA's Oil-free dental compressor, **Mega-Air3** supplies clean air with anti-corrosion coated air receiver tank & superior performance air dryer. The dryer and case can be selected according to the conditions, and cabinet type **Mega-Air3 C** can be operated outside the machine room by reducing operating noise. One motor cylinder is equipped with dual piston on both sides to provide a higher flow rate than the volume.

## Specification

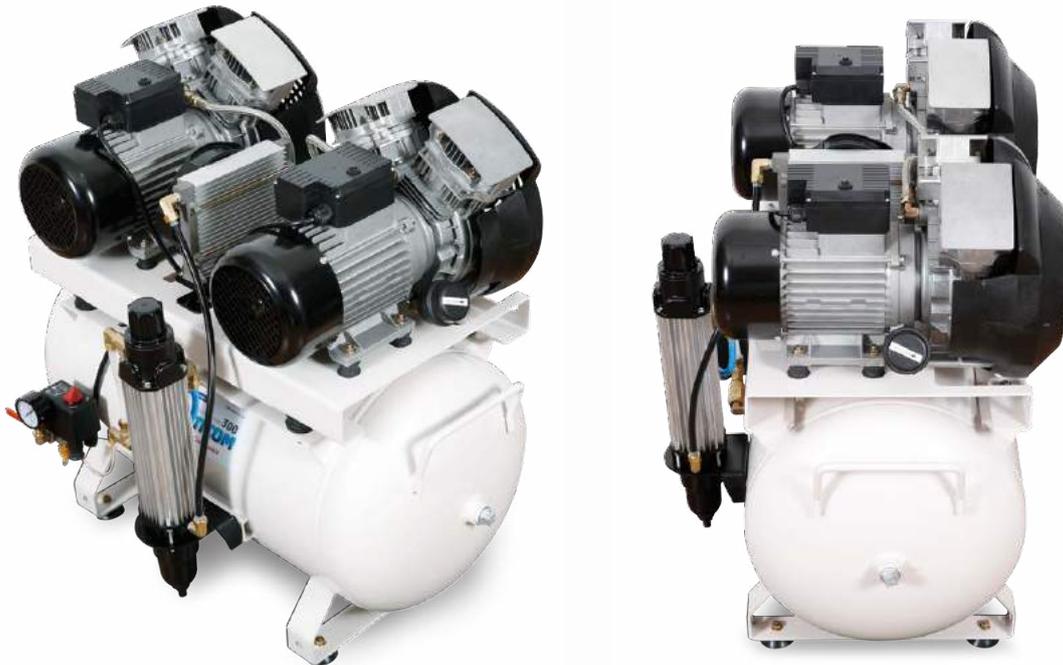
( Membrane Dryer ● / General Dryer ○ / No Dryer × )

Model	Code No.	Tank (Liter)	Main Power (V/Hz)		Motor Power (Kw/H.P)		Flow rate 5bar (LPM)	Pressure (Bar)	Size (LxWxH) cm	Weight (kg)	Noise (dB)	Dryer
Mega-Air3	CMA3-403M	40	400	50/60	2.6	3.5	280/291	5~8	78x44x77	56	78	●
	CMA3-403D	40	400	50/60	2.6	3.5	280/291	5~8		56	78	○
	CMA3-403	40	400	50/60	2.6	3.5	280/291	5~8		53	78	×
Mega-Air3 C	CMA3-243M	24	400	50/60	2.6	3.5	280/291	5~8	78x46x97	99	59	●
	CMA3-243D	24	400	50/60	2.6	3.5	280/291	5~8		99	59	○
	CMA3-243	24	400	50/60	2.6	3.5	280/291	5~8		96	59	×

# Mega-Air4

Oil-free dental compressor for 6 ~7 Unit chairs

For  
6-7 Unit  
Chairs



**Mega-Air4** Conventional type

DMEGA's Oil-free dental compressor, **Mega-Air4** supplies clean air with anti-corrosion coated air receiver tank & superior performance air dryer. **Mega-Air4** series adopts most advanced technology of fresh air in-take technology with wool blanket filter, air shower design and equipped with world class key components.

## Specification

(Membrane Dryer ● / General Dryer ○ / No Dryer ×)

Model	Code No.	Tank (Liter)	Main Power (V/Hz)		Motor Power (Kw/H.P)		Flow rate 5bar (LPM)	Pressure (Bar)	Size (LxWxH) cm	Weight (kg)	Noise (dB)	Dryer
Mega-Air4	CMA4-804M	80	230	50/60	3	4	300/316	5~8	85x45x80	105	69	●
	CMA4-804D	80	230	50/60	3	4	300/316	5~8		105	69	○
	CMA4-804	80	230	50/60	3	4	300/316	5~8		102	69	×

# Mega-Air5

Oil-free dental compressor for 8 ~9 Unit chairs

For  
8-9 Unit  
Chairs



**Mega-Air5** Conventional type  
**3 PHASE**

DMEGA's Oil-free dental compressor, **Mega-Air5** supplies clean air with anti-corrosion coated air receiver tank & superior performance air dryer. **Mega-Air5** series adopts most advanced technology of fresh air in-take technology with wool blanket filter, air shower design and equipped with world class key components. One motor cylinder is equipped with dual piston on both sides to provide a higher flow rate than the volume.

## Specification

(Membrane Dryer ● / General Dryer ○ / No Dryer ×)

Model	Code No.	Tank (Liter)	Main Power (V/Hz)	Motor Power (Kw/H.P)	Flow rate 5bar (LPM)	Pressure (Bar)	Size (LxWxH) cm	Weight (kg)	Noise (dB)	Dryer
Mega-Air5	CMA5-806M	80	400 50/60	4.9 6.5	600/612	5-8	115 x 70 x 86	65	78	●
	CMA5-806D	80	400 50/60	4.9 6.5	600/612	5-8		66	78	○
	CMA5-806	80	400 50/60	4.9 6.5	600/612	5-8		59	78	×

# Tera-Air 3/5

Oil-free scroll type dental compressor for large dental hospital

For large dental hospital



- **Compression principle of oil-free scroll compressor**  
As the orbiting scroll orbits from the No.1 position the No.4 position, a crescent-shaped compression room at the point of symmetry position is gradually reduced compressed through the outlet at the center.
- **Low noise & Low vibration**  
Silent operation and low vibration assure comfortable working environment.
- **Clean Air 100% Oil-Free**  
Our scroll compressor is oil-free compressor offering clean air quality, reliability & durability for dental practice.
- **Compact & Smart Design**  
High compression efficiency by the scroll head with Teflon provides excellent durability & strong power.

Tera-Air3 (4~5 Unit Chair) / Tera-Air5 (6~8 Unit Chair)



## Specification

(Membrane Dryer ● / General Dryer ○ / No Dryer ×)

Model	Code No.	Tank (Liter)	Main Power (V/Hz)		Motor Power (Kw/H.P)		Flow rate 5bar (LPM)	Pressure (Bar)	Size (LxWxH) cm	Weight (kg)	Noise (dB)	Dryer
Tera-Air3	CTA3-383M	38	400	50/60	2.2	3	240/250	6~8	70x74x107	176	55	●
	CTA3-383D	38	400	50/60	2.2	3	240/250	6~8		177	55	○
	CTA3-383	38	400	50/60	2.2	3	240/250	6~8		173	55	×
Tera-Air5	CTA3-385M	38	400	50/60	2.2	3	240/250	6~8	70x74x107	186	58	●
	CTA3-385D	38	400	50/60	2.2	3	240/250	6~8		187	58	○
	CTA3-385	38	400	50/60	2.2	5	240/250	6~8		183	58	×

# Tera-Air Max

Oil-free scroll type dental compressor for large dental hospital

For  
30~40 Unit  
Chairs



**Tera-Air Max**

- For large dental hospitals and university hospitals (Central compressor system)

DMEGA proudly introduce scroll type dental compressor, Tera-Air series that scroll mechanism ensures silent and low-vibration operation, making for a comfortable working environment with state of art technology. It is fully automated with just turning on and off the compressor is all that needs to be done for daily operation.

- Motors operate automatically according to the use of volume
- 1~2 motors operate when the use of volume decrease, 4 motors operate when the use of volume increases
- If some motor stop, other motors can back-up automatically Main Power Compressed
- Monitoring system & alarming function is equipped
- General Operating Condition

Suction Pressure (bar)	Ambient Temp. (°C)	Humidity (%)	Head Size (cm)	Weight (kg)
Atmosphere	Max. 40	Below 85	34.4 x 35 x 29	23

- Specification of Scroll Airend

Shift Power (kw)	Air Delivery (bar)	Orbit Scroll Speed (rpm)	Air Cleaning	Cooling Method
3.7	8~6.5	3,150	10 μm	Sirocco Fan



Scroll Head



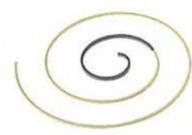
Orbiting Scroll



Fixed Scroll



Sirocco Fan With Excellent Cooling Effect



Tip Seal With High Air tightness

## Specification

Main Power	Compressed air method	Unit Chair Covered	Motor Power (Kw / H.P)	Flow rate 5bar (LPM)	Pressure setting (Bar)	Size (LxWxH) cm	Weight (kg)
400V, 3 phase	Scroll	30~40	14.8 20	1,500	6~8	72x114x164	510

# CLEBO

Total solution for dental practice

For  
1~6 Unit  
Chairs



■ On-stop solution product

Dental clinic always care about clinical space. Clebo is combined system incorporate both DMEGA compressor & Teravac suction system. Clebo can be combined with customer's need for 1~6 surgeries. The measurement of Clebo could be different according to customer's selection of compressor model.

■ On-stop solution product

It includes compressor and suction in one unit, so it can make better use of a space

Application of **Dental Dry Suction**

Model	Application	Surgery	Main Power (V / Hz)		Size (L x W x H) cm	Weight (kg)	Vacuum (bar)
Clebo 1	Megavac 2000	1~2	230	50/60	33x43x55	29	200~290
	Megavac 2000A	1~2	230	50/60	33x43x66	30	170~200
Clebo 2	Teravac 3000	1~3	230	50/60	51x41x61	32	200~370
	Teravac 5000	4~5	230	50/60	51x41x61	33	200~370
	Teravac 6000	5~6	230	50/60	51x41x63	37	200~370



Application of **Oil-free compressor**

Model	Application	Surgery	Main Power (V / Hz)		Size (L x W x H) cm	Weight (kg)	Flow rate (LPM)
Clebo 1	Mega-Air1 Micro	1	230	50/60	54x40x50	28	55
	Mega-Air1	1	230	50/60	54x40x61	38	80
Clebo 2	Mega-Air2	2~3	230	50/60	63x45x80	52	150



# Motor Head

Motor Head of Oil-free dental compressor



**Air1-Micro Motor Head**



**Mega-Air1 Motor Head**



**Mega-Air2 Motor Head**



**Mega-Air3 Motor Head : 3 phase**



**Scroll Head : 3 phase**

## Specification

Model	Code No.	Main Power (V/Hz)		Motor Power (Kw/H.P)		Flow rate 5bar (LPM)	Pressure (Bar)	Weight (kg)	Noise (dB)
Air1-Micro	CHMH-AM-55	230	50/60	0.75	1	55/60	5~8	13	60
Mega-Air1	CMH-MA1-80	230	50/60	0.75	1	80/91	5~8	18.8	65
Mega-Air2	CMH-MA1-150	230	50/60	1.5	2	150/162	5~8	21.2	75
Mega-Air3	CMH-MA1-375	400	50/60	2.6	3.5	280/291	5~8	28.8	78
Scroll Head	CMH-SC	400	50/60	2.2	3	240/250	6~8	23	49

# Clinic Air Dryer

Motor Head of Oil-free dental compressor



## ■ General type Air Dryer

Air dryer is basically configured as a general type, but it can be exclude or changed depending on the customer's choice. The general air dryer decomposed the air and moisture when compressed air and water come in from the compressor tank, and supplies the evaporated circulating air.

## ■ Membrane Air Dryer

Membrane air dryers are used not only to remove moisture but also to filter out Bacteria to prevent air pollution when using medical devices such as handpieces. Membrane air dryer can be used to prevent secondary infections caused by air through 4stage filtration, allowing connection to the unit chair as well as installation in the compressor.



## Clinic Air Dry System

Air compressors for dental care are basically clean and dry. Humid air damages expensive equipment, and dirty air acts as a means of transporting contaminants, jeopardizing the health of the patient.

In recent years, there has been a growing demand for clean air rather than simply dried air in dental offices and laboratory rooms. In other words, it is to find air free from foreign matter such as bacteria, viruses and dust particles.

DMEGA membrane dryer with HEPA filter filters molecules up to  $0.01\mu\text{m}$  in size, removing 99.999% of not only water but also gaseous contaminants.



### Specification

Model	Internal Components	Particles	Q'ty	Replacement cycle	Size (mm)
General Dryer	Pre filter	$5\mu\text{m}$	2	4 year	$\text{Ø}80 \times 400\text{L}$
	Bacteria filte	$0.01\mu\text{m}$	1	1 year	$\text{Ø}33 \times 75\text{L}$
Membrane Dryer	Pre filter	$3\mu\text{m}$	1	1 year	$\text{Ø}30 \times 50\text{L}$
	Dust filter	$1\mu\text{m}$	1	1 year	$\text{Ø}50 \times 28\text{L}$
	Membrane filter	$0.01\mu\text{m}$	1	2 year	$\text{Ø}47 \times 230\text{L}$
	Bacteria filter	$0.01\mu\text{m}$	1	1 year	$\text{Ø}33 \times 75\text{L}$

## Suction

Image	Model	Surgery	Description
	S 101	1	Semi-wet Suction with Separator
	S 101C	1	Semi-wet Suction with Separator / S101 cabinet type
	Megavac 2000	2	Semi-wet Suction with Separator
	Megavac 2000A	1	Semi-wet Suction with Separator & Amalgam separator
	Teravac 3000	1 ~ 3	Semi-wet Suction with Separator & Inverter function
	Teravac 5000	3 ~ 4	Semi-wet Suction with Separator & Inverter function
	Teravac 6000	4 ~ 5	Semi-wet Suction with Separator & Inverter function
	Teravac 12000	1 ~ 6	Semi-wet Suction with Separator & Inverter function
	Mega Power	2 ~ 3	Liquid Ring Vacuum pump

## Compressor

Image	Model	Surgery	Description
	Mega-Micro 1	1	1HP Piston Type Oil-free dental compressor with Membrane dryer
	Mega-Air 1	1	1HP Piston Type Oil-free dental compressor with Membrane dryer
	Mega-Air 2	2 ~ 3	2HP Piston Type Oil-free dental compressor with Membrane dryer
	Mega-Air 3	3 ~ 5	3.5HP Piston Type Oil-free dental compressor with Membrane dryer
	Mega-Air 4	6 ~ 7	4HP Piston Type Oil-free dental compressor with Membrane dryer
	Mega-Air 5	8 ~ 9	6.5HP Piston Type Oil-free dental compressor with Membrane dryer
	Tera-Air 3	4 ~ 5	3HP Scroll Type Oil-free dental Compressor / with dryer
	Tera-Air 5	6 ~ 8	5HP Scroll Type Oil-free dental Compressor / with dryer
	Tera-Air Max	30 ~ 40	20HP Scroll Type Oil-free dental Compressor

## Central Suction for Hospital

Image	Model	Surgery	Description
	Tera-Max 3	44 ~ 60	10HP Central Dry Suction with Separation Tank & Inverter controlled Panel / Spare Back-up motor
	Tera-Max 4	66 ~ 90	15HP Central Dry Suction with Separation Tank & Inverter controlled Panel / Spare Back-up motor
	Tera-Max 5	88 ~ 120	20HP Central Dry Suction with Separation Tank & Inverter controlled Panel / Spare Back-up motor