

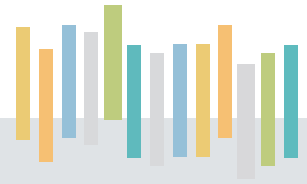


# DMEGA

New Frontier of Suction  
System for Dental Practice



**teravac**  
DMEGA Suction Technology



## FACTORY & PRODUCTION LINE



Exporting over 50 countries...



### Company History

- 1987 ● Started the Dental suction, Compressor, Painting, and Unit Chair repair business.
- 2000 ● Dental compressor, Suction, Air purification system development and utility model registration.
- 2006 ● 1st generation suction unit development : parallel type for motor output
- 2007 ● 2nd generation suction unit development : Development of integral suction by increasing motor efficiency.
- 2010 ● 3rd generation suction unit development : applied manual inverter Started to develop with 4stage of filtration.
- 2013 ● 4th generation suction unit development : Applied automatic inverterfor 3rd generation dental compressors,



1st Generation  
(2006 year)



2nd Generation  
(2007 year)



3rd Generation  
(2010 year)



4th Generation (2013 year)

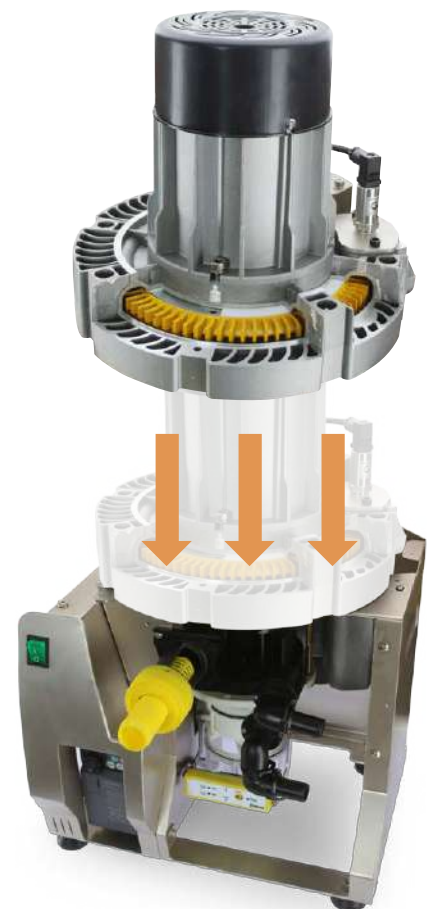
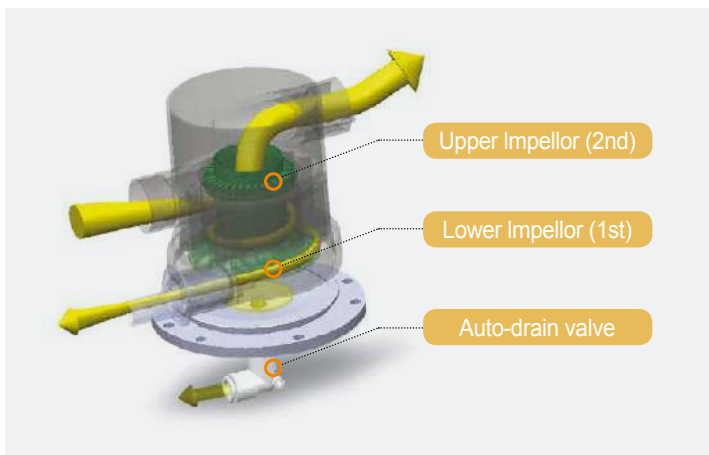


## Compact, Effective & Safe air · liquid Separation Unit

DMEGA's Suction technology meets the customer satisfaction. With our patented innovative technology, the 2 stage of cyclone separation impellers separate air and liquid certainly than any other combined separation system. By adopting auto drain by-pass system in the separation part, auto drain valve discharge residue of liquid and blood after stopping the motor. So it prevents clogging problem, especially overnight after surgical hours end.

### DMEGA's Suction Technology

- Double Impelling system in separator : 100% air/liquid separation
- Triple wings & auto-drain valve system : prevents clogging problem inside of separation impellor
- Pressure relief air-emitting technology : relieves chronic overheating problem of turbine motor
- Automatic vacuum regulation technology : saves electric expenses & extends motor lifetime



### Amalgam separation & Inverter Technology

# Compact Suction units for one work station

## S 101

Best selling item,  
Provide proper vacuum for 1 dental unit

S101 is semi-wet suction system for one dental unit. This model is compact size so can make better use of a space in treatment rooms. It supplies strong vacuum power despite small size. With an air/liquid separation unit, the S101 certainly separates the liquid and solid particles. The 2 stage of cyclone separating system accomplishes top level separation capacity. And the S101 has auto drain valve system, it discharges the residue of liquid and blood automatically after stopping the motor. It prevents clogging problems.





## S 101C

S101 C has also been designed as a single dental unit. So the S101 C is really easy to install in the treatment room. It is compact size but supplies strong vacuum power. The suction motor is installed in the cabinet, so it has a low noise output.

## MEGAVAC 2000

Megavac 2000 is semi-wet suction system for 2 dental units. It supplies powerful vacuum power so it can be used in poor conditions with installed long pipe. Also it is specialized in  $\varnothing 30\text{--}40$  sized suction pipes. It doesn't need any water supply so it can save energy and prevent freezing problems in winter. And the noise level is quite low in comparison to other products, approximately 55db.



MEGAVAC 2000 Case





## MEGAVAC 2000 A

Dental amalgam waste is regulated as both a solid waste and as a waste water contaminant.

Residues of dental amalgam in waste water can lead to hazardous problems for the environment.

DMEGA's suction system with centri-fugal amalgam separator is simple and effective way of preventing unintended environmental pollution.

Megavac 2000 A has proven that all functions (vacuum, separation and getting rid of amalgam) can be performed in one unit which takes up the minimum amount of space.

It is approved according to ISO11143 standard Megavac 2000 A has over 95% of amalgam removing effectiveness.



MEGAVAC 2000 A Case

New Concepts of Suctions

# TERAVAC

by dmega

## TERAVAC Series

DMEGA's advanced technology for dental suction system developed AVR(Automatic Vacuum Regulation) function with Mitsubishi inverter & Automatic pressure sensor.

This technology offers flexible, intelligent control system to meet upgraded customer satisfaction level.

Teravac series supply optimal vacuum power for surgery use.

When one dental unit is used, the inverter controls motor speed at 40~45Hz, when more than two dental units are used, the inverter controls frequency appropriately to provide sufficient vacuum power. In this way, it prevents overheating problems, saves energy and extends lifetime of the motor.



TERAVAC 3000

TERAVAC 5000

TERAVAC 6000

Artificial Intelligence Operation & Energy Saving Solution

# TERAVAC Key Features



## Pressure sensor & By-pass Mode

When pressure sensor is abnormal or vacuum power is not sufficient, this switch gives fast & easy solution. When this switch is On, motor speed is setting 55 Hz immediately to supply sufficient vacuum power.



## Intelligence control system by inverter

This advanced technology offers flexible, intelligent control system to realize and upgrade customer satisfaction level. Teravac series supply optimal vacuum power for surgery use. Also, it prevents over-heating problem, saves energy, and extends motor lifetime.



## Automatic vacuum regulation

Automatic pressure sensor enables reaction to supply optimal vacuum power for the surgery use. When 1 surgery use, it operates inverter 40~45 Hz, and 2 surgery use, it increases motor speed as 50~55 Hz. So it prevent over-heating problem, Saves energy and extend motor life time.

## Saves impeller from sticking

When impeller is stuck in corrosion or other causes, this 'Teflon ring' prevents breakdown in motor and impeller. In this way, Teflon ring can extend lifetime of Teravac.







## TERAVAC 12000

DMEGA's advanced technology for dental suction system developed AVR(Automatic Vacuum Regulation) function with Mitsubishi inverter & Automatic pressure sensor.

This technology offers flexible, intelligent control system to meet upgraded customer satisfaction level.

Teravac series supply optimal vacuum power for surgery use.

When one dental unit is used, the inverter controls motor speed at 40~45Hz, when more than two dental units are used, the inverter controls frequency appropriately to provide sufficient vacuum power.



## TERA-MAX

Teramax 5 is dry suction system for 90~120 dental units for large dental hospitals.

It has five suction motors, one of five suction motors is for spare use maintain once.

It is used when one or two suction motors have some problems or So it supplies optimal vacuum power, and it can save the surgery hours. Teramax has water supply pump motor, it supplies water that Solenoid Valve use when the valve cleans the inside of separator. So it is easy for maintenance. Also with three-level of Ball-top Sensor, it controls the water level inside the separator automatically, and prevents damages of motor.

With the timer, it set can automatically AM 9:00~PM 9:00, or the user can set the time. So it is convenient and safe to use at night. It has automatic pressure sensor and intelligence inverter system.

Suction power is regulated automatically by automatic pressure sensor according to surgery use.

This pressure sensor is for supplying optimal vacuum power & reducing electric cost. It also prevents over-heating problem for the motor and extends lifetime of motor.



## Clebo

(Total Solution for Dental Practice)

Clebo is one-stop solution product.

It is combined compressor(with inverter) and Teravac suction(with inverter).

It includes compressor and suction in one unit, so it can make better use of a space. compressor and Teravac suction operate by inverter system, so it can extend lifetime of motor and save energy.

Also, the suction product can be changed and installed in the unit.

So the customer can choose the product they want.

## Smart Arm A+ (Plus)

A plus helps to keep clean environment in clinical area and protect doctors, hygienist and patients through the immediate removal of handpiece aerosols during dental procedure.

### Specification

Product Name	Dental handpiece mist collector
Model Name	Smart Arm A Plus
Power Supply (V)*	230 VAC / 50, 60hz
Electric Current (A)*	13.0 A
Output Power (kW)*	1.3 kW
Air Flow rate	3.00 m <sup>3</sup> /min
Size W×D×H	37(L) × 34(W) × 120(H)cm
Weight	Approx. 25 kg
Noise Level	Approx. 65 dB



For Both arms

For one arm



## MEGA-POWER

(Wet Suction)

Mega-power is wet suction for 2-3 dental units.  
This model supplies powerful vacuum power with using water.

## Suction Cleaner Vacuzol

Eco-friendly suction cleaner included fatty acid extract from beans  
Vacuzol consists of natural plant colloid, which is eco-friendly enzymes, so it is harmless to humans. Also, this suction cleaner doesn't contain any chemicals like aldehyde, phenol and chlorine, so it prevents damages of suction drainage or inside the chairs. Also it prevents water pollution because of biodegrading more than 99%. A molecule itself produces molecular kinetic energy by nanomolecular motion without shaking or producing friction. So by this principle, it can clean suction drainage or inside the chairs. This suction cleaner works great for pollutant of suction drainage like blood, amalgam residue and impression materials. Also it sterilizes very well by decomposition of colon bacillus, mold, bacteria and salmonella. It can be used up to 65 uses by diluting this suction cleaner fifty to one before use.



# Specification



## S101, Megavac 2000 Series

**MEGAVAC**

	S101	S101C	Megavac 2000 A (Amalgam)	Megavac 2000
Main Voltage	230 VAC	230 VAC	230 VAC	AC
Frequency	50~60 Hz	50~60 Hz	50~60 Hz	50~60 Hz
Electrical power	0.55~0.63 Kw	0.55~0.63 Kw	0.7~0.83 Kw	0.7~0.83 Kw
Current consumption	3.7~4.4 Amp	3.7~4.4 Amp	6~7 Amp	6~7 Amp
Vacuum Regulated	170~200 m bar	170~200 m bar	170~200 m bar	200~290 m bar
Suction motor rotation speed	2900~3440 rpm	2900~3440 rpm	2900~3440 rpm	2900~3440 rpm
Number of treatment units	1 unit	1 unit	1 unit	2 units
Weight	20 kg	35 kg	30 kg	29 kg
Dimensions (W×L×H)	33×54×62 cm	37×52×62 cm	33×43×66 cm	33×43×55 cm
Noise Level	55 dB	50 dB	55 dB	55 dB

## Teravac Series

**teravac**

	Teravac 3000	Teravac 5000	Teravac 6000	Teravac 12000
Main Voltage	230 VAC	230 VAC	230 VAC	230 VAC
Frequency	0~70 Hz	0~70 Hz	0~65 Hz	0~65 Hz
Motor power	0.63 Kw	0.94 Kw	1.3 Kw	1.3 Kw × 2
Inverter power	0.75 Kw	1.5 Kw	2.2 Kw	2.2 Kw × 2
Rated Current	3.5~4 Amp	4~4.5 Amp	4.5~5 Amp	(4.5~5) × 2 Amp
Vacuum Regulated	200 m bar	200 m bar	200 m bar	400 m bar
Max. vacuum	370 m bar	370 m bar	370 m bar	740 m bar
No. of treatment	Up to 2 units	Up to 3 units	Up to 4 units	Up to 6 units
Max. airflow	600 l/m	900 l/m	1200 l/m	2400 l/m
Motor speed	0~3980 rpm	0~3980 rpm	0~3740 rpm	0~3740 rpm
Weight	32 kg	33 kg	37 kg	78 kg
Dimensions (W×L×H)	41×51×61 cm	41×51×61 cm	41×51×63 cm	82×51×63 cm
Noise Level	59 dB	61 dB	61 dB	64 dB

## Teramax Series

**TERAMAX**

	Teramax 2	Teramax 3	Teramax 4
Main Voltage	380 VAC (~3)	380 VAC (~3)	380 VAC (~3)
Frequency	0~50 Hz	0~50 Hz	0~50 Hz
Motor power	3.7 Kw × 2	3.7 Kw × 3	3.7 Kw × 4
Max. airflow	6,600 (L/M)	13,200 (L/M)	19,800 (L/M)
No. of treatment (Max)	25 (30) units	40 (60) units	65 (90) units