

The Technological Advantage for Dental Clinics and Universities

Dental-medical compressed air and suction systems by Dürr Dental



COMPRESSED AIR
SUCTION
IMAGING
DENTAL CARE
HYGIENE

Superior technology matched with perfect service

Dürr Dental sets the benchmark for both compressed air and suction systems. As one of the leading manufacturers, we provide solutions for both large practices, dental clinics and universities with several hundred treatment, simulation and phantom workstations.

Individual project planning

Clinics need a consistent supply of compressed air and suction. This is where high performance with reliable reserves is required. A customised system project plan is necessary to ensure that the solution is precisely tailored to the user's needs. Our service covers everything from consultation, planning, on-site installation and start-up of the compressed air and suction unit, to after-sales training and maintenance.

Comprehensive and customized service

Our experienced project managers can take on the development of the entire project. The seamless integration of individual compressed air and suction systems in the clinic depends on several factors. We therefore provide a unique service for suction and compressed air systems. We will respond to all queries concerning the technical integration of Dürr Dental devices at nearly all treatment units and leading manufacturers' training facilities.



Consulting / Planning

Good consultancy and planning are the basis for the most appropriate design of all suction and compressed air systems.



Selection of systems

Consistent oil-free compressed air systems for extremely dry, highquality air. Modern dental suction systems from the inventor of the spray mist suction.



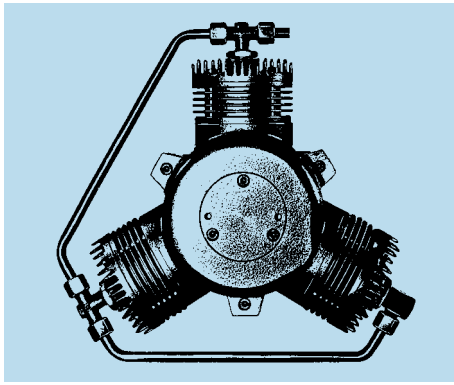
Installation / Customizing

Dürr Dental technicians will assemble and install your systems in your practice while taking into account all safety regulations.



Training / After Sales

We won't leave you to fend for yourself after making your purchase – We offer training on a regular basis and provide a customer service, which will answer all your questions.

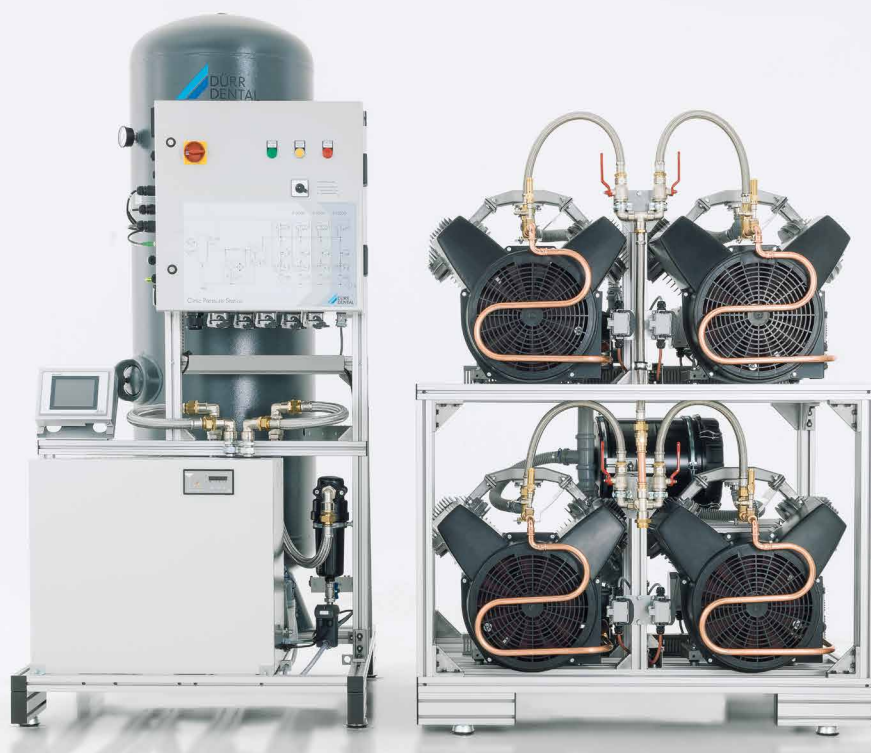


FOR OVER 70 YEARS:
100% COMMITMENT



WE NOT ONLY DEVELOP
INNOVATIVE SYSTEM SOLUTIONS
BUT ALSO THINK HOW TO PROVIDE YOU
WITH TROUBLE FREE DAY TO DAY
OPERATION OF YOUR CLINIC
WHILE DOING SO

Superior quality for compressed air systems



This is what matters:

- Premium compressed air quality: oil free, dry and hygienic
- Compressors automatically switched on and off according to compressed air requirements
- If one compressor breaks down, the next one automatically performs its tasks
- Just one central bacteria suction filter for a complete station (e.g. P 12000)

Technical Data

Clinic Pressure Stations	P 6000		P 9000		P 12000	
Order No.	5922-52	5922-62	5932-52	5932-62	5942-52	5942-62
Voltage (V)	400 V (3~)	400 V (3~)	400 V (3~)	400 V (3~)	400 V (3~)	400 V (3~)
Frequency (Hz)	50	60	50	60	50	60
Power consumption (kW)	12,5	15,5	18,5	23	24,5	30,5
Current consumption (A)	23,4	26,8	33,9	39	44,4	51,2
Weight net (kg)	565	565	730	730	845	845
Discharge flow (0 bar) / Free Air Delivery	2000	2360	3000	3540	4000	4720
Discharge flow at 5 bar (l/min)	1560	1800	2340	2700	3120	3600
Tank capacity (l)	500	500	500	500	500	500
Pressure range (bar)	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8
Dimensions pressure station (H x B x T cm)	100 x 130 x 100	100 x 130 x 100	180 x 130 x 100	180 x 130 x 100	180 x 130 x 100	180 x 130 x 100
Dimensions tank station (H x B x T cm)	220 x 100 x 130	220 x 100 x 130	220 x 100 x 130	220 x 100 x 130	220 x 100 x 130	220 x 100 x 130
noise level with cover at 5 bar* (dBA)	77	79	78	80	79	80
noise level w/o cover at 5 bar* (dBA)	88	89	91	89	91	92
Number of workplaces SF 100%/SF 60 %	35/60	40/70	55/85	60/100	70/115	80/130

*noise level at 1 m distance from the device. Average noise level; tolerance: 3 db(A). The noise level depends on the installation conditions. In rooms which are not sound-proofed, (e.g. with tiled walls), higher noise levels can occur. All noise levels were measured under full load with all aggregates in operation at maximum pressure.

Clinic suction systems – cutting edge technology



This is what matters:

- Central separation unit made of stainless steel
- Uniform use of suction motors, thus ensuring high reliability and an increase in the overall service life
- Cost effective use of power thanks to automatic switch on and switch off of suction motors according to actual operational times and the required volume flow
- Intelligent fault monitoring

Technical Data

Suction Units	V 6000	V 9000	V 12000	V 15000	V 18000
Order No.	1802-51	1803-51	1804-51	1805-51	1806-51
Voltage (V)	400 V (3~)	400 V (3~)	400 V (3~)	400 V (3~)	400 V (3~)
Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Power consumption (kW)	5,6 / 7,4	8,2 / 10,9	10,8 / 14,4	13,4 / 17,9	16 / 21,4
Current consumption (A)	12,1 / 14,1	16,6 / 19,6	21,1 / 25,1	25,6 / 30,6	30,1 / 36,1
Dimensions w/o condensate separator (H x W x D cm)	115 x 130 x 130	115x130x130	180x130x130	180x130x130	180x130x130
Weight net (kg)	175	215	335	375	415
Pressure (mbar)	-160	-160	-160	-160	-160
suction pressure connection piece (mm)	110/110	110/110	2x110 / 1x160	2x110 / 1x160	2x110 / 1x160
noise level w/o cover (dBA)	70/72	72/73	72/74	74/75	74/76
noise level with cover (dBA)	56/59	61/64	58/60	61/62	63/65
Number of workplaces SF 100%, 50/60 Hz	20/25	30/37	40/50	50/62	60/75
Number of workplaces SF 60 %, 50/60 Hz	30/40	50/60	70/80	80/100	100/120

*noise level at 1 m distance from the device. Average noise level; tolerance: 3 db(A). The noise level depends on the installation conditions. In rooms which are not sound-proofed, (e.g. with tiled walls), higher noise levels can occur. All noise levels were measured under full load with all aggregates in operation.

The Central Separation Tank – in stainless steel only from Dürr Dental

The Central Separation Tank collects all the secretion sucked from treatment stations, separates the secretion-air mix and feeds the air into the suction unit. This system thus replaces individual separators for each station. Separation occurs afterwards in the CA 4 Amalgam Separators. Automatic integrated flushing and disinfection also reduces the spread of germs in the tank.

Central remote monitoring

Central remote monitoring offers clear and comfortable querying of fault messages, operating hours, filter replacement, handling, etc. of all Dürr Dental clinic systems. Even the connection to the existing central control centre can be carried out via potential free contacts.

Automatic disinfection

The CDS 60 central disinfection station allows the Orotol® plus concentrate to be fed to each treatment unit to disinfect the whole unit quickly and at low cost.



Optionally, a noise-reducing housing is available for all compressors and suction systems



Visual display for monitoring all functions from a central control station, e.g. in the technical room



WE ALWAYS STRIVE
TO PROVIDE THE BEST RESULTS
FOR OUR CUSTOMERS



That's efficiency - compressed air and suction systems from a single source

Compressed air and suction from Dür Dental

Besides the high-performance suction units to which a central or integrated separation system is connected upstream, Dür Dental also provides central compressed air units with refrigerant type dryer and cyclone separator for up to 100 workplaces per station. The owner gains several cost advantages and synergy effects from a combined set-up between the coordinated compressed air and suction systems.

Flexible solutions tailor-made to your requirements

Dür Dental offers vacuum systems for dry and semi-dry suction systems. These flexible solutions are available in 5 versions and are suitable for up to 100 treatment units. The high-performance side channel compressors are precisely matched to requirements by the intelligent PLC. The modular set-up of the systems enables retrofitting of aggregates, e.g. for the expansion of a clinic.

Best references from leading dental clinics around the world

Reference

University of Baltimore, USA

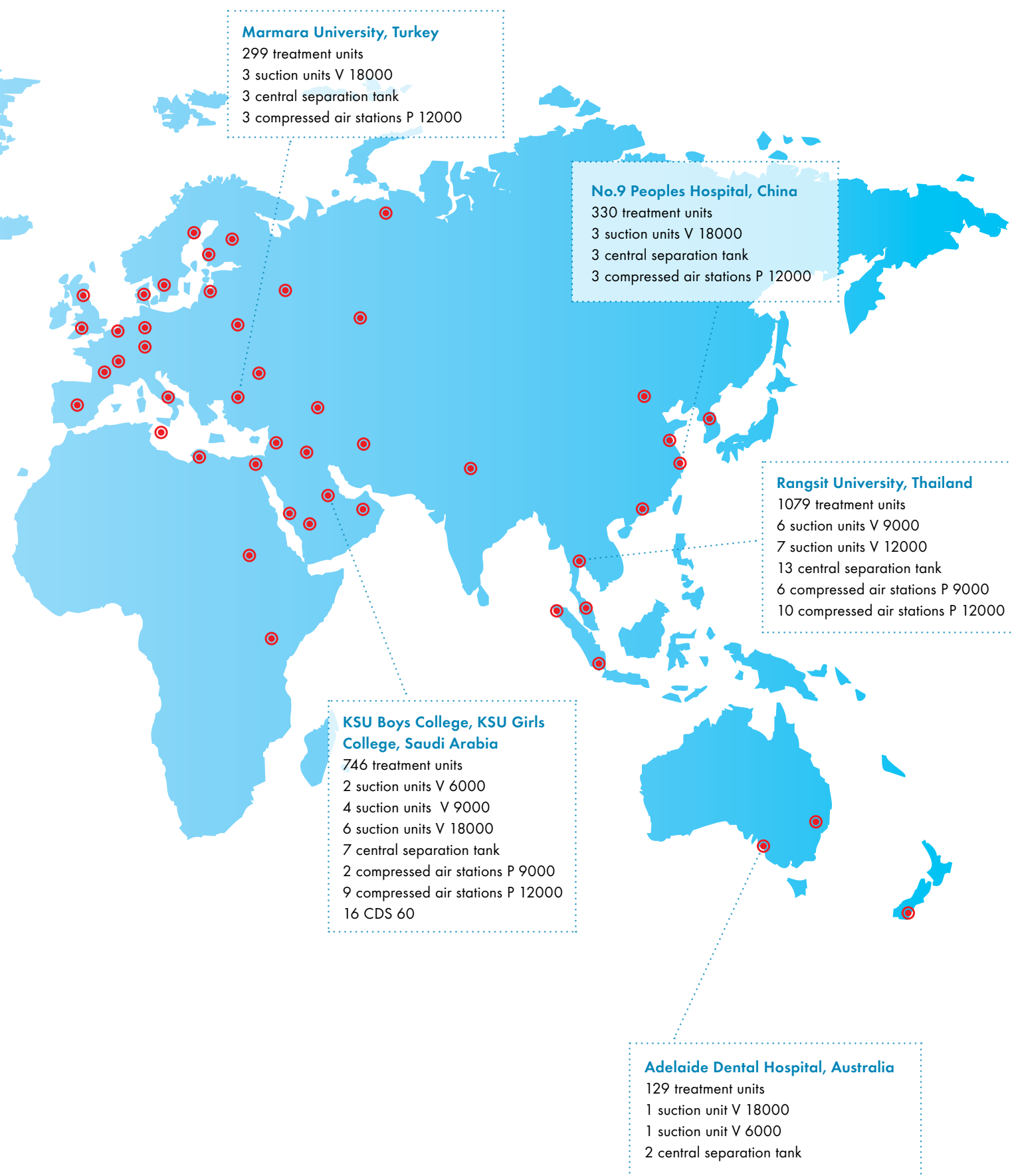
170 phantom stations
4 suction units V 9000
2 central separation tank with amalgam separators

Nepean Dental Hospital, Australia
Bahrain Defence Force Hospital, Bahrain
University Gent, Belgium
Universidad Autonoma De Chile, Chile
No.9 Peoples Hospital, China
Hangzhou Dental Hospital, China
University of Copenhagen, Denmark
Carolinum Frankfurt, Germany
University Munich, Germany
Westdeutsche Kieferklinik Düsseldorf, Germany
Kuopio University, Finland
Université de Nantes, France
Université de Strasbourg, France
Leeds Dental Hospital, Great Britain
Edinburgh Hospital, Great Britain
ESIC Dental College New Delhi, India
University of Sriwijaya, Indonesia
Dental Clinic Belfast, Ireland
University of British Columbia, Canada
Dankook University, Korea
Asnan Clinic, Kuwait
Stomatology Institute Riga, Latvia
Mahsa University, Malaysia
International Islamic University Kuantan, Malaysia
Mater Dei Hospital, Malta
University of Otago, New Zealand
University of Groningen, Netherlands
Donau-Universität, Austria
Hospital Ekaterinburg, Russia
Princess Noura University, Saudi Arabia
King Saud University Boys College, Saudi Arabia
King Saud University Girls College, Saudi Arabia
National Guard, Saudi Arabia
University of Bern, Switzerland
Juan Carlos University, Spain
Mahidol University, Thailand
Adnan Menderes University, Turkey
Bolu Dental University, Turkey
University of Wisconsin-Milwaukee, USA
Union Hospital Elkton Maryland, USA

Universidad Autónoma de Medellín, Columbia

100 treatment units
30 phantom workplaces
1 suction units V 18000
1 compressed air stations P 6000
1 compressed air stations P 12000

You can find more references at
www.duerdental.com





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