MDX
CREATE VALUE



OIL-FREE · LOW NOISE · HIGH PERFORMANCE · DURABILITY

Dental Piston Compressor

ANY AIR 2 / ANY AIR 4 / ONE AIR D2

www.mdxkr.com

MADE IN KOREA

ABOUT US

MDMED provides optimal solutions for dental chairs and hydraulic surgical tables. Since 1989, MDMED has led technological development as a specialist manufacturer of hydraulic systems (hydraulic pumps, solenoid valves) and dental components (3-way syringes, HVEs, saliva ejectors). These products are core components of dental chairs and surgical tables, and most Korean manufacturers use MDMED products to build their dental chairs and surgical tables — a clear sign of the trust placed in MDMED's technology and quality.

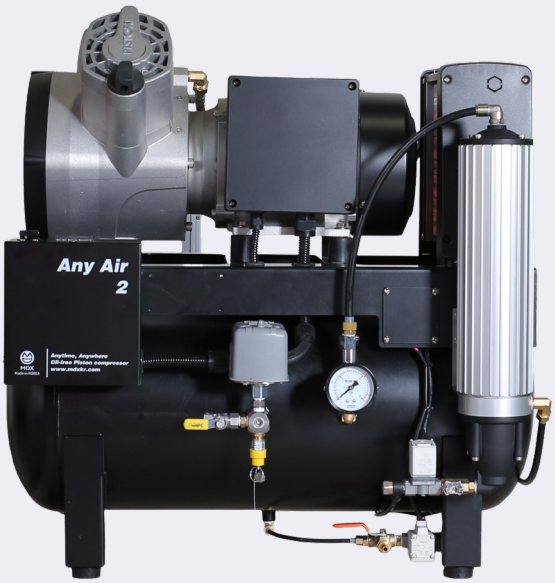
MDMED

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MDX, a subsidiary of MDMED, is dedicated to providing reliable products and services built on MDMED's technology and quality management. MDX conducts rigorous quality control using dedicated measuring equipment and maximizes efficiency by combining automated production lines with skilled manual work. MDX holds patents and certifications that recognize its unique technology, and carries out comprehensive product inspections and serial-number tracking to ensure product quality.

MDX is strengthening its core competencies and achieving steady growth through industry–academia collaboration. We have launched a piston-type compressor based on MDMED's technology and know-how. With this advanced compressor and an upcoming vacuum pump, we aim to set a new technical standard in the dental market.

COMPRESSOR LINEUP



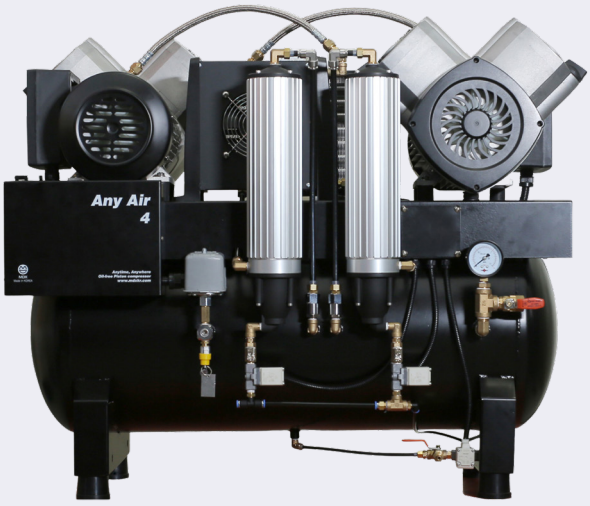
ANY AIR 2 (UL MODEL)



ANY AIR 2



ONE AIR D2



ANY AIR 4

CORE TECHNOLOGY

Cutting-edge technology, built on over 30 years of machining experience.



“Just as the engine is the heart of a vehicle, the piston head is the heart of a compressor.”

Innovative structure of our piston head

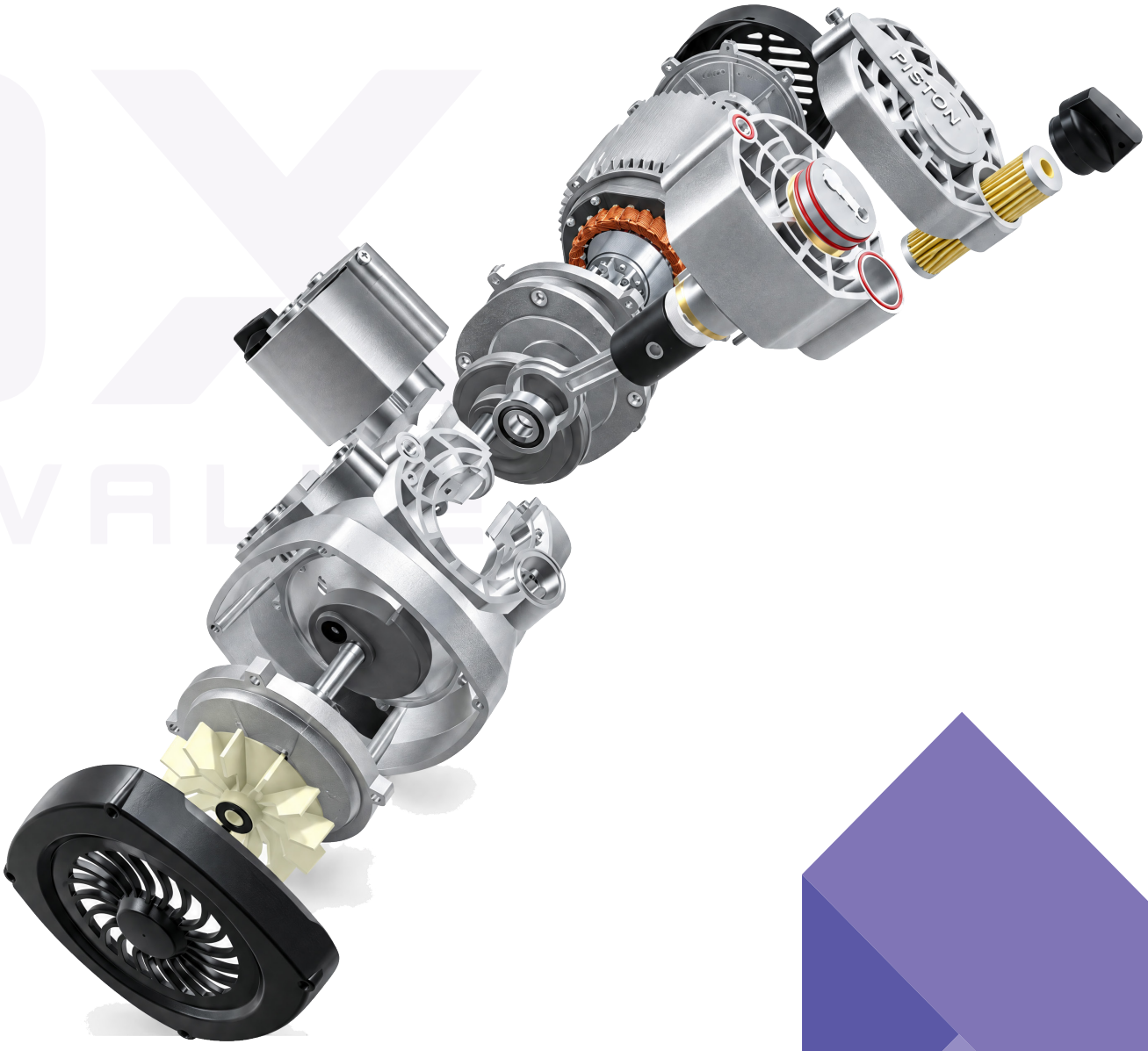
The primary filter is designed to keep dust in the outside air from entering the piston chamber, since external dust that gets into the cylinder can cause malfunctions. Intake air from the atmosphere first passes through this fine filter. Compressors also require effective thermal management, and our piston head is structured for optimal heat management. Air from the external fan first cools the piston head and its interior, then cools the cylinder chamber before being expelled. This dual cooling technology lets the external air cool the piston head twice.

PISTON HEAD

“A piston-type compressor can only be built with precision machining technology and know-how.”

As shown in the picture below, our piston head has a very complex structure. Each component is closely interconnected with the others, just as small gears work together to drive a large gear.

If a problem occurs in even one part, the compressor becomes noisy and cannot compress air.



PRODUCT OVERVIEW

ANY AIR 2

- Articulated Piston Structure
- Highly Efficient Air Delivery
- Low Noise
- Oil-Free Technology

Cooling System
| Cooler fitted as standard

Piston Head
| Noise reduction structure
| Dual cooling structure



Filter System
| Intake filter + ULPA 16 filter

Tank
| Corrosion-resistant premium SUS304 stainless steel tank
| 40-liter capacity
| Excellent corrosion resistance & high strength

Desiccant Dryer
| Centrifugal separator + element filter + activated alumina
| Humidity indicator · purge tank

ANY AIR 2 (UL MODEL)

- SUS304 Stainless Steel Tank
- Low Noise & Oil-Free Technology
- Hour Meter for Tracking Usage Time
- Remote Control via Low-Voltage DC System
- Desiccant Dryer

Cooling System
| Cooler fitted as standard

Piston Head
| Noise reduction structure
| Dual cooling structure



Filter System
| Intake filter + ULPA 16 filter

Low-Voltage Control Box
| Remote control via low-voltage DC
| Equipped with an hour meter for maintenance tracking

Tank
| Corrosion-resistant premium SUS304 stainless steel tank
| 45-liter capacity
| Excellent corrosion resistance & high strength

Desiccant Dryer
| Centrifugal separator + element filter + activated alumina
| Humidity indicator · purge tank

ONE AIR D2

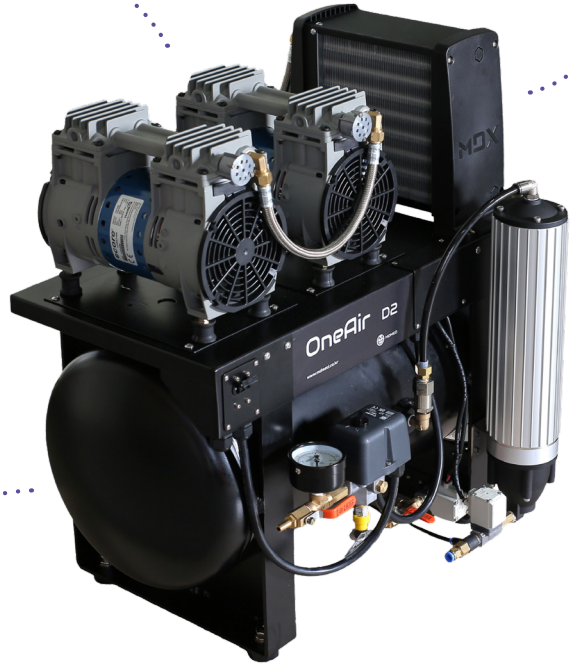
- **Rocking Piston Type** - Equipped with THOMAS Heads
- **Oil-Free Compressor** - Ensures clean and dry compressed air without lubrication
- **Low Noise & High Durability** - Optimized structure for quiet operation and long-lasting performance

Piston Head CE

- Total 2 HP (1 HP per head)
- Manufactured by THOMAS
- Low noise, long lifespan, and stable performance even at high pressure

Cooling System

- Cooler fitted as standard



Triple Filter System

- Three filters deliver clean compressed air to patients



Tank

- High-quality aluminum tank with excellent corrosion resistance
- 40-liter capacity
- Elegant black powder coating for a premium appearance

Reliable Performance with Proven Engineering

The ONE AIR D2 combines THOMAS's precision piston head, renowned for its durability and easy maintenance, with MDX's advanced engineering from the ANY AIR 2 series—including a triple filtration system and a premium aluminum tank design.

Compared to articulated piston compressors, the ONE AIR D2 offers a more compact form, simpler maintenance, and greater cost efficiency, while maintaining stable output and quiet operation. Its THOMAS-made head, used widely across industrial and medical applications, provides a much longer service life than typical low-cost models and ensures easy parts replacement for reliable after-sales service.

PRODUCT OVERVIEW

ANY AIR 4

- Articulated Piston Dual Head Structure
- Premium 90 L Stainless Steel Tank
- High Air Delivery Rate
- Independent Control System

Cooling System

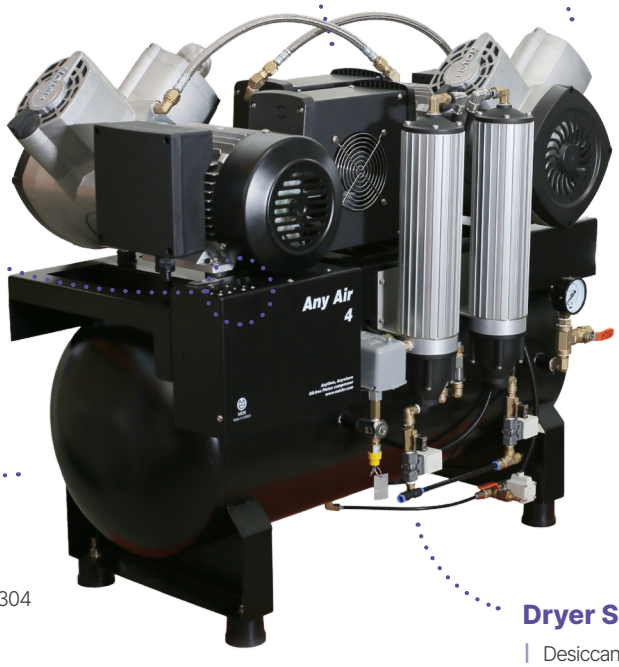
| Cooler fitted as standard

Articulated Piston Dual Head Structure

| A powerful 4 HP compressor with a dual-head configuration
| Optimized for large dental clinics and dental laboratories



Independent Control System



Tank

| Corrosion-resistant premium SUS304 stainless steel tank
| 90-liter capacity
| Excellent corrosion resistance & high strength

Dryer System (in development)

| Desiccant dryer under development for ANY AIR 4
| Final configuration to be confirmed at launch

Power and Reliability for Large-Scale Dental Environments

The ANY AIR 4 is a large-capacity compressor equipped with two articulated piston heads, embodying MDMED's 30 years of core engineering expertise. Designed specifically for large dental hospitals and dental laboratories, it delivers outstanding air supply performance and durability.

The 90-liter tank, made from premium SUS304 stainless steel, ensures exceptional corrosion resistance and long-term stability. Each piston head can be controlled independently, allowing users to adjust operation based on air demand.

Even if one head requires maintenance, the other continues to operate seamlessly—ensuring an uninterrupted air supply and a continuous clinical workflow. The ANY AIR 4 is the ultimate compressor system, providing consistent, reliable performance for professional environments that demand perfection.

SPECIFICATIONS COMPARISON

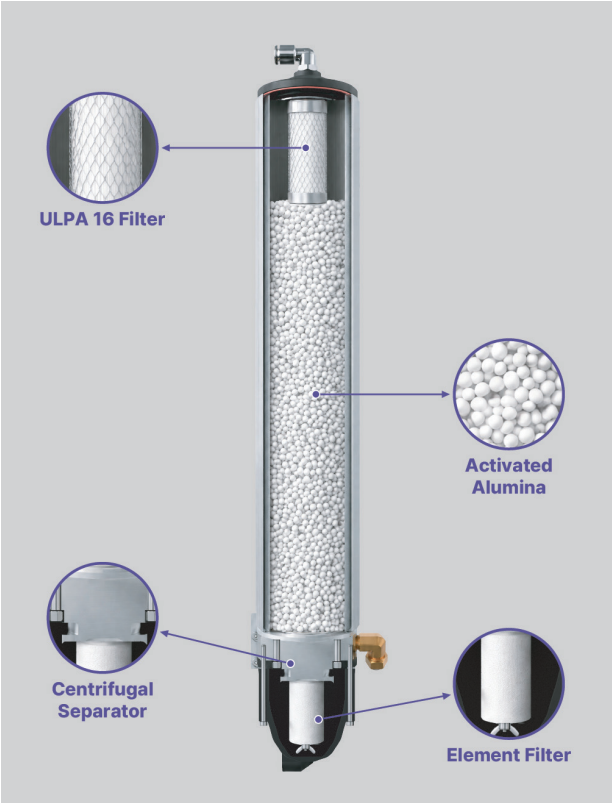
MODEL	ANY AIR 2	ANY AIR 2 (UL MODEL)
HP (HORSEPOWER)	2	2
TYPE	Articulated Piston	Articulated Piston
Voltage (V)	220~240	220~240
Frequency (Hz)	50 / 60	50 / 60
Maximum Pressure (bar/psi)	8 bar / 116 psi	7 bar / 100 psi
Flow Rate at 5 bar	125 / 160 (L/min)	5.6 CFM @ 80 psi
Tank Capacity	40 (L)	12 (gal) / 45 (L)
Weight	60 (kg)	137 (lb)
Dimensions (H × W × D)	72 × 68 × 47 (cm)	28 × 27 × 19 (in)

MODEL	ANY AIR 4	ONE AIR D2
HP (HORSEPOWER)	4	2
TYPE	Articulated Piston	Rocking Piston
Voltage (V)	220~240	220~230
Frequency (Hz)	50 / 60	50 / 60
Maximum Pressure (bar/psi)	7 bar / 100 psi	8 bar / 116 psi
Flow Rate at 5 bar	11.2 CFM @ 80 psi	113 / 130 (L/min)
Tank Capacity	23.7 (gal) / 90 (L)	40 (L)
Weight	308 (lb)	37 (kg)
Dimensions (H × W × D)	33 × 40.5 × 21 (in)	68 × 60 × 45 (cm)

Understanding the Difference

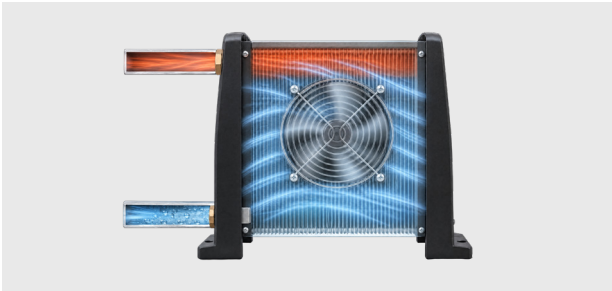
Type	Motion Structure	Key Features	Ideal Application
Rocking Piston (Wobble Type)	The piston tilts slightly on a single axis as it reciprocates. (Rocking piston movement)	Compact and efficient design, lightweight, low noise, simple maintenance	General Practice & Cost-Effective Choice
Articulated Piston (Connecting-Rod Type)	The piston is connected by a rod and moves in a jointed, “articulated” motion.	High compression power, reduced vibration and heat, superior durability	All Professional Clinics Seeking Long-Term Reliability

COMPONENTS



Desiccant Dryer Unit

- Three-stage drying: a centrifugal separator removes water droplets, an element filter traps particles and fine droplets, and activated alumina adsorbs the remaining water vapor.
- A purge tank built into the frame keeps the alumina regenerated, and a humidity indicator on top of the dryer shows its condition at a glance.
- The ULPA 16 filter removes 99.9995% of fine airborne particles from 0.1 to 0.3 µm.



Cooling System

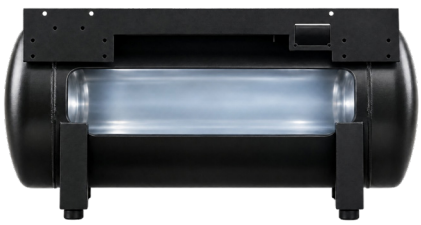
The cooler lowers the temperature of the compressed air so that the water vapor generated during compression condenses into droplets, which are then removed in the dryer.

Filter System



Intake Filter | Element Filter | HEPA Filter | ULPA 16 Filter

SUS304 Stainless Steel Tank



The SUS304 stainless steel tank offers excellent corrosion resistance and durability.

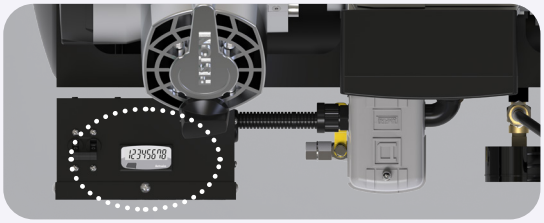
KEY FEATURES

Filtration System



① Intake Filter ▸ ② Element Filter ▸ ③ ULPA 16 Filter
for clean compressed air.

Low-Voltage Control Digital Hour Meter



The low-voltage control box allows remote operation, and the attached hour meter makes it easy to track usage time for maintenance. [1)]

1) The low-voltage control box is available only on the UL model.

Piston Ring



61 Shore D

Seals the cylinder tightly for efficient compression, with high wear resistance and heat transfer for reliable long-term performance.



ANY AIR 2
SUS304 Stainless Steel Tank (40 L)

ANY AIR 2 (Standard) - Stainless Steel Tank (40 L)
ANY AIR 2 (UL MODEL) - Stainless Steel Tank (45 L)
ANY AIR 4 - Stainless Steel Tank (90 L)
ONE AIR D2 - Aluminum Tank (40 L)

Humidity Indicator · Purge Tank


Humidity indicator


Purge tank

A humidity indicator on top of the desiccant dryer shows the condition of the activated alumina at a glance. A purge tank built into the frame keeps the alumina regenerated.

- **DRY** : the alumina is in good condition and regenerating properly.
- **CAUTION** : the alumina is at the borderline.
- **WET** : the alumina is near the end of its life or not regenerating properly, so water vapor may not be removed effectively.

WARRANTY

ANY AIR 2	ONE AIR D2
5 Years Head	3 Years Head

Other Components 1 Year

Register your serial number on the MDX website for seamless service support.

www.mdxkr.com

MDX
CREATE VALUE

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