COLD AIR SKIN COOLING SYSTEM

2027 MD Lasers Chiller

A stand-alone chiller that directs a steady stream of sub-zero air onto the skin. Use it to cool the treatment area before, during and after laser, IPL and RF procedures so patients stay comfortable, all without touching the skin or getting in the way of the beam.

to −30 °C
AIR TEMPERATURE (−22 °F)

1500 W
COMPRESSOR POWER

3
INTERCHANGEABLE NOZZLES

2 m
TREATMENT HOSE

8.5 in
TOUCHSCREEN CONTROL



Pairs with

Laser hair removal · Tattoo & pigment lasers · Fractional CO_2 · IPL · RF & microneedle RF

BEFORE
Pre-cool
Chill the surface ahead of the first pulse

DURING
Parallel cooling
Air flows alongside the beam as you treat

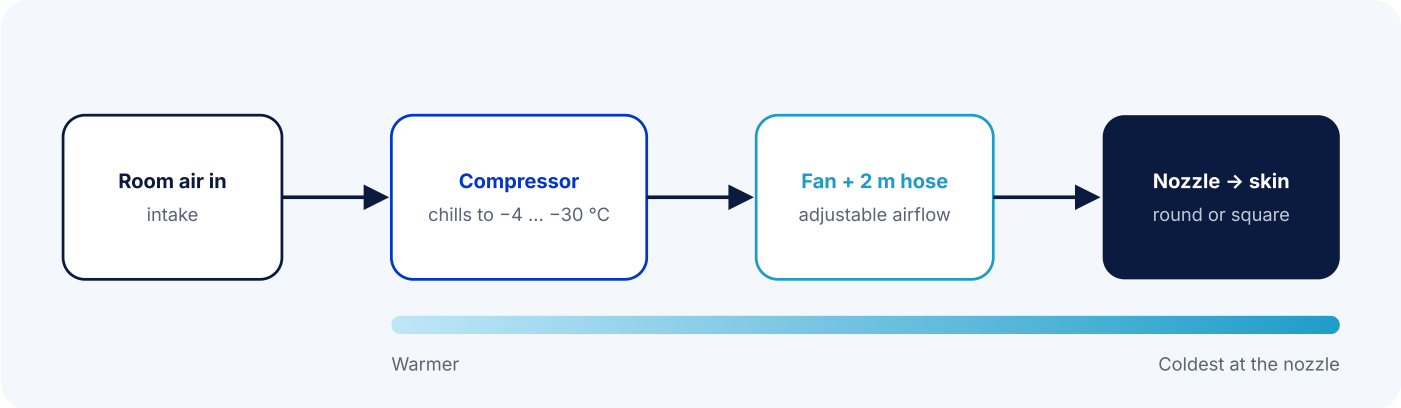
AFTER
Post-cool
Soothe the area once the session ends

MD Lasers · 7696 183A Toll Rd, Unit 1C, Leander, TX 78641 888-446-5727 · 512-215-8553 · info@mdlasers.com · mdlasers.com

THE TECHNOLOGY

Non-contact cooling with forced cold air

A built-in refrigeration compressor chills room air, and an adjustable fan pushes it down an insulated hose to a hand-held nozzle. The operator aims the cold airflow at the skin next to the laser or IPL handpiece. Nothing touches the patient, and no gel, spray canister or ice is used.



Clear beam path

Because it is non-contact, the airflow can run at the same moment the laser fires. There is no plate or window over the skin to absorb or scatter energy, and the clinician can see the treatment site throughout.

Steady, repeatable cooling

Temperature and airflow are set on the touchscreen and held for the whole session. Each area gets the same level of cooling from start to finish, unlike ice packs that warm up or sprays that cool in short bursts.

How common cooling methods compare

Method	Skin contact	Consumables	Use during the pulse
Forced cold air (this system)	None	None	Yes. Runs continuously beside the handpiece
Contact cooling	Chilled plate or window on skin	None	Only where it is built into the handpiece
Cryogen spray	None	Refill canisters	Short bursts timed around each pulse
Ice / cold packs	Direct	Packs, covers	No. Applied before or after only

Schematic diagram. Comparison reflects general characteristics of each cooling method. Cooling settings should be set by a trained operator for each patient and treatment.

HOSE & NOZZLES

Match the airflow to the treatment area

Cold air travels through a 2 m insulated, braided hose to a hand-held applicator. A holder on top of the cabinet keeps the hose in position between uses, and the applicator end takes push-fit nozzles that change in seconds.

Narrow nozzles focus the airflow on small or contoured areas. Wider nozzles spread it across larger body zones, such as those treated during laser hair removal.





Round nozzle

SMALL AREAS

Concentrated airflow for compact or contoured zones such as the eyebrows, forehead and underarms.



Medium flat nozzle

MID-SIZE AREAS

A wider fan of air for arms, underarms and legs. A good fit for hair removal sessions.



Large flat nozzle

LARGE AREAS

The broadest coverage for big zones such as the thighs and abdomen, especially during hair removal.



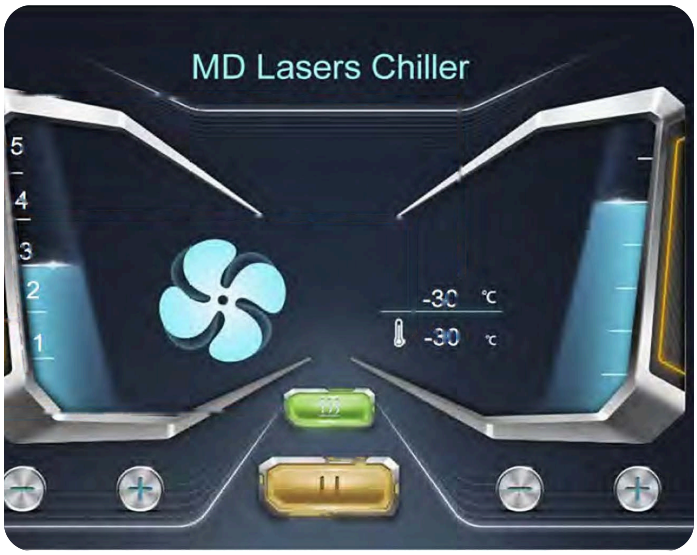
Mobile, self-contained cabinet

The compressor, fan and controls sit in one rolling cabinet on four casters, so the unit can move between treatment rooms and sit right next to the laser it supports. Cooling uses only electricity and room air, with no refills or disposables.

TOUCHSCREEN CONTROL

Simple controls on one screen

An 8.5-inch touchscreen shows the set and actual temperatures, the airflow level and the system functions together, and each one adjusts with a single tap.



1. **Temperature**
   Set the outlet air anywhere from −4 °C down to −30 °C, and check the live reading against your setting.
2. **Airflow level**
   Step the fan speed up or down to suit the area and the patient.
3. **Temperature monitoring**
   The system tracks its internal temperatures continuously.
4. **One-touch dehumidify / defrost**
   Clears moisture and frost from the cooling circuit (45 s defrost cycle) to keep output stable over long days.

Built for all-day use

Deep cold
Outlet air reaches as low as −30 °C (−22 °F), adjustable from −4 °C.

1500 W compressor
A high-output compressor sized for long periods of continuous running.

Three nozzles
Round, medium and large outlets for small, mid-size and large areas.

Easy to learn
Clear touchscreen layout with no complicated menus.

No consumables
No gels, cryogen canisters or ice packs to buy or restock.

Mobile cabinet
Rolls on casters to sit beside any treatment platform.

WORKS ALONGSIDE

One cooler for the whole treatment room

The cooler is not tied to any one platform. Because it only needs to sit nearby and point at the skin, a single unit can support almost any energy-based device in the practice.

Picosecond & Q-switched lasers
Tattoo removal and pigment treatments

Laser hair removal
Diode, alexandrite and Nd:YAG systems

Fractional CO_2 lasers
Resurfacing and scar treatments

IPL / intense pulsed light
Photorejuvenation and hair removal

Microneedle RF & RF devices
Skin tightening and texture treatments

Facial and other skin procedures
Wherever surface cooling helps comfort

Why practices add skin cooling

- Keeps patients more comfortable during heat-generating treatments
- Helps reduce surface heat, redness and swelling that can follow energy-based procedures
- Can pre-cool, run during treatment and cool down afterward with one device
- Gives the same, repeatable level of cooling every session
- No ongoing supply costs

> Skin cooling supports patient comfort and does not replace correct laser settings, patient selection or clinical judgment. Individual experience varies.



Typical cooling workflow

1 · Pre-cool
Pick the nozzle, set temperature and airflow, then chill the area briefly before treatment begins.

2 · Treat
Keep the airflow trailing just ahead of or beside the handpiece as it moves across the skin.

3 · Post-cool
Run the air over the treated area for a short period afterward to help the patient stay comfortable.

TECHNICAL DATA

Specifications

COOLING	
System type	Forced cold air, non-contact skin cooling
Air temperature range	−4 °C to −30 °C, adjustable (24.8 °F to −22 °F)
Airflow (fan speed)	Adjustable, levels 1–6
Defrost cycle	45 s, one-touch dehumidify / defrost
Nozzles	Round (small areas), medium flat, large flat
Treatment hose	2 m (approx. 6.6 ft)
CONTROL & POWER	
Display	8.5 in touchscreen
Power	1500 W
Electrical	110 V / 60 Hz, 6 A · 220 V / 50 Hz
PHYSICAL	
Dimensions	865 × 419 × 854 mm (approx. 34.1 × 16.5 × 33.6 in)
Shipping carton	906 × 463 × 906 mm (approx. 35.7 × 18.2 × 35.7 in)
Consumables	None

Sales, service & support from MD Lasers

We buy, sell, refurbish and service aesthetic lasers.

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Specifications subject to change without notice. Imperial values are approximate conversions. Regulatory status and indications vary by market; contact MD Lasers for details.