MICROTEC

ATLAS ULTRA QUICK GUIDE

AT43-APS

ATLAS ULTRA 32×43 Pneumatic Slide-Out Heat Press

One picture per step. Scan a QR code or tap “Watch” to see that exact step in our video.



Safety first

The heat plate gets very hot

Up to 450°F. Never touch it. Keep children and pets away.

220V only — have an electrician wire it

Grounded 220V, 60 Hz, on its own circuit. The machine draws up to 26 A. No extension cords.

The plate comes down with air power

Both hands on the two green buttons. Keep everyone's hands out from under the plate.

Indoors, dry, airy room

Level, solid floor. 41–104°F room. Away from water, dust and anything that can burn.

Emergency? Press the red **EMERGENCY STOP** button next to the screen. The heat plate lifts at once and the machine stops. Then turn off the power switch.

1 Unbox



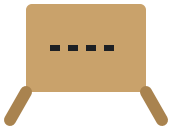
1. Check the shipment before you sign

It comes by freight truck. If anything looks damaged, write it on the delivery paper.



2. Move it with a forklift or pallet jack

It is very heavy. Never lift it by the plates or the control box.



3. Unpack it where it will be used

Remove all packing material and straps.



4. Keep all packaging

You will need it if the machine ever has to come back for service.

---

2 Set up



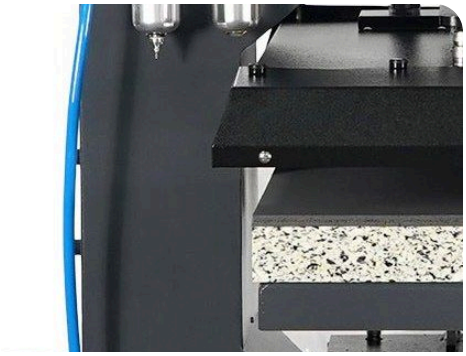
1. Set it on a level, solid floor

Leave room in front to slide the lower plate all the way out, and room at the sides to reach the air gauge and power switch.



2. Have an electrician install a 220V outlet

Grounded, 220V, 60 Hz, 26 A, on its own circuit. A regular 110V wall outlet will not work.



3. Connect your air compressor to the blue air hose

The blue hose runs down from the air gauge on the left side of the machine. Connect your compressor line to its end. The press cannot close without air.



4. Plug the power cord into the 220V outlet

The black cord comes out low on the right side, at the back.



5. Turn on the red power switch

Just above the power cord. The screen lights up. Check: power cord plugged in and air hose connected — 2 connections.



6. Set the air pressure to 4–6 kg/cm²

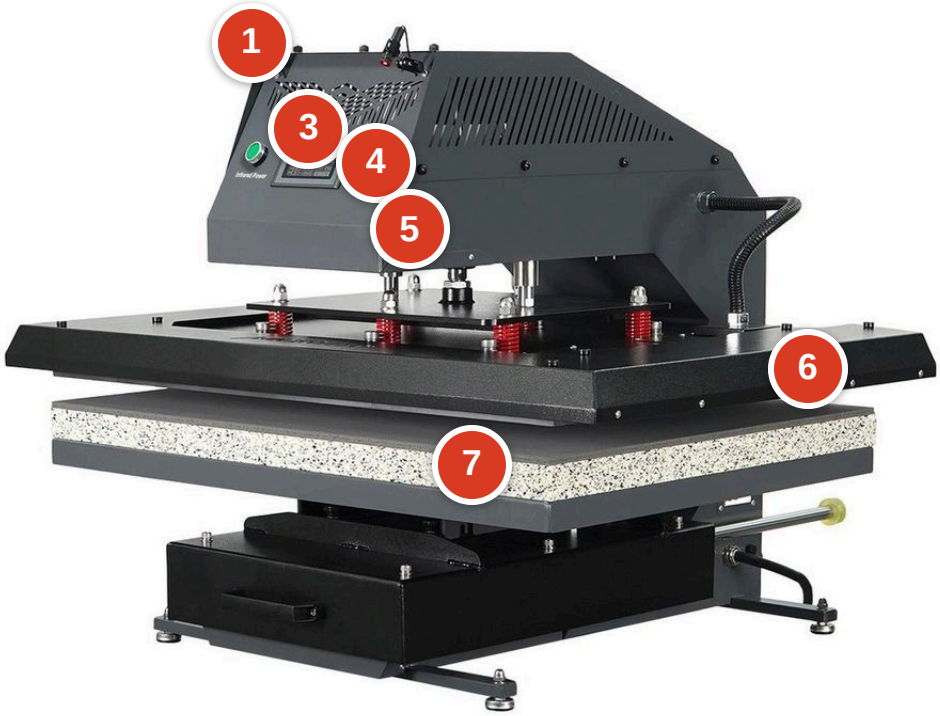
Turn the black knob on the air gauge until the needle reads 4–6 kg/cm² (0.4–0.6 MPa, about 57–87 psi). Clockwise ↻ = more pressure, counter-clockwise ↺ = less. If the knob won't turn, pull it up first; push it down to lock. Turn a little at a time and watch the gauge.



7. Turn on the laser lights

Green "Infrared Power" button left of the screen.

3 Know your machine



1 Laser lights
Red lines help you place garments and designs.

2 Laser on / off button
Turns the laser lights on and off.

3 Touchscreen
Set temperature and time, turn heating on.

4 EMERGENCY STOP button
Lifts the heat plate and stops at once.

5 Green start buttons (one each side)
Press both together with both hands to start.

6 Heat plate (HOT)
Do not touch.

7 Lower plate (slides out)
Pull out to load, push back in before pressing.

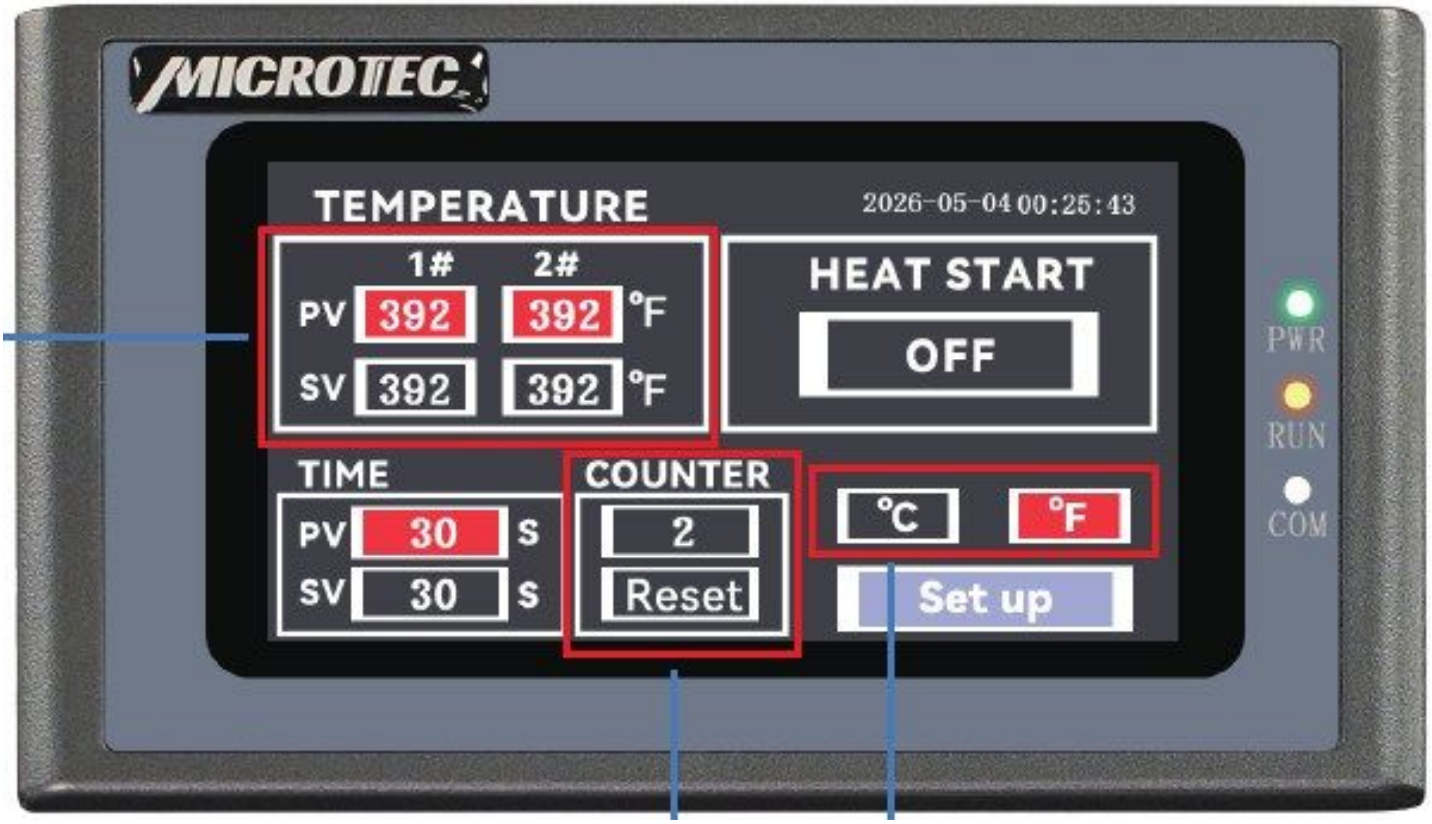
8 Power switch and power cord
Low on the right side of the frame, at the back.

9 **Air gauge and regulator**
Sets and shows the air pressure. On the side of the frame. Clockwise ↻ = more pressure, counter-clockwise ↺ = less.

10 **Air inlet (blue hose)**
Runs down from the air gauge. Connect your compressed air here.

Auto lift: when the countdown reaches 0, the heat plate lifts by itself.

4 Touchscreen



1 **TEMPERATURE 1# and 2#**
Two heat zones. PV = actual temperature now. SV = the temperature you set.

2 **HEAT START**
Tap to turn heating ON or OFF.

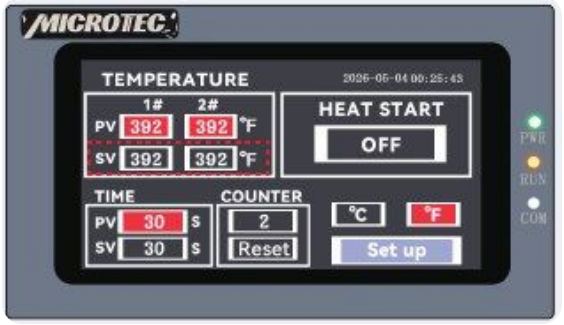
3 **TIME**
PV = countdown. SV = the press time you set, in seconds.

4 **COUNTER and Reset**
How many presses. Hold Reset 3 sec to clear.

5 **°C / °F**

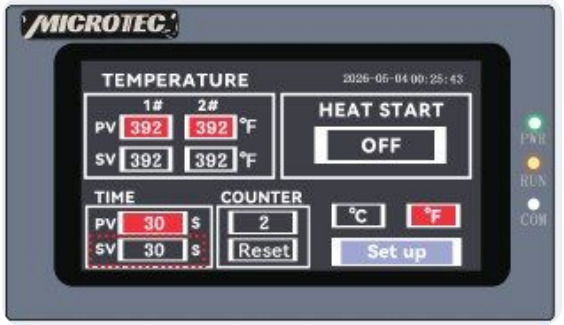
Tap to choose the temperature unit.

Set temperature and time



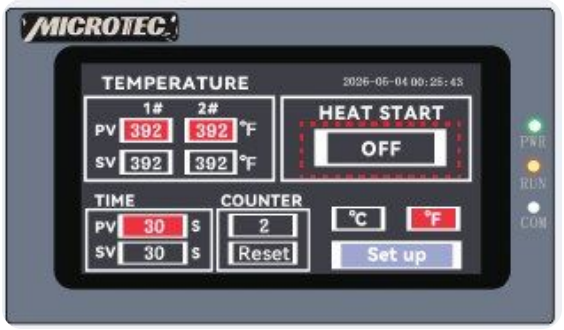
1. Set the temperature

Tap the SV box under 1#, type the number, press Enter/OK. Do the same for 2#.



2. Set the time

Tap the SV box under TIME, type the seconds, press Enter/OK.



3. Turn on HEAT START

Tap HEAT START so it shows ON. The plate starts heating.

Wait until PV (actual) reaches SV (set) before you press.

Quick reference

I WANT TO…	DO THIS
Change the temperature	Tap SV under 1# / 2# → type → **Enter/OK**

I WANT TO…	DO THIS
Change the press time	Tap SV under TIME → type → **Enter/OK**
Turn heating on / off	Tap **HEAT START**
Switch °F / °C	Tap **°F** or **°C**
Clear the counter	Hold **Reset** 3 sec

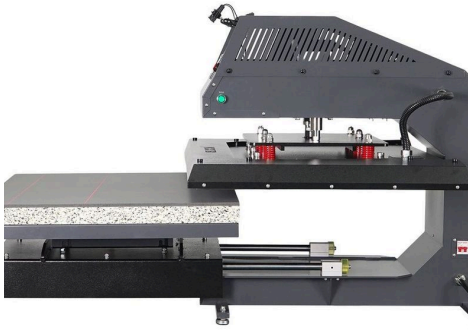
Ranges: temperature 0–450°F · time 0–9999 sec.

5 Your first press



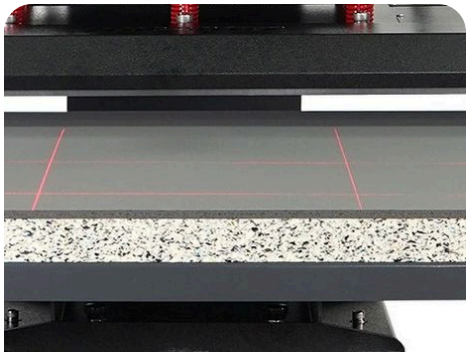
1. Turn on HEAT START and wait

Wait until the actual temperature (PV) reaches your set temperature. MicroTec DTF film: 300°F, 6 seconds.



2. Pull the lower plate out

Slide it all the way out toward you.



3. Lay the garment and transfer flat

Use the red laser lines to line them up.



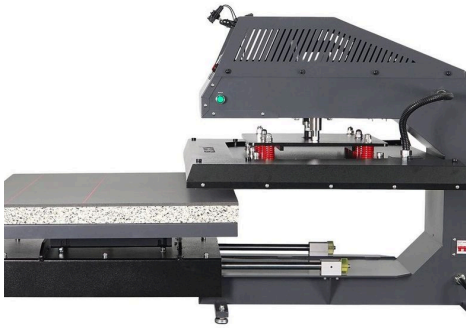
4. **Push the lower plate back in**

All the way, until it stops.



5. **Press both green buttons together**

The heat plate comes down and the countdown starts.



6. **At 0 it lifts — slide out and peel**

MicroTec DTF film: hot peel — peel right away while hot. Other transfers: follow their instructions. Repeat for the next one.

6 If something is wrong

Won't turn on

1. Check the 220V power to the machine.
2. Turn on the red power switch on the right side.
3. Still nothing? Call us.

Plate won't come down

1. Press both green buttons at the same time.
2. Check the air hose is connected and the compressor is on.
3. Check the gauge reads 4–6 kg/cm².

Plate won't heat

1. Check HEAT START shows ON.
2. Check the SV temperature is set.

Laser lines are off

1. Press the green "Infrared Power" button.

Specifications

	AT43-APS
Plate size	31.4″ × 43.3″
Power	220V · 5.8 kW · 26A · 60Hz
Air supply	4–6 kg/cm² (0.4–0.6 MPa)
Temperature	0–450°F
Timer	0–9999 s
Controller	PLC touchscreen (GC-043-16M2AI-C)

Still stuck? Call us.

Phone

(714) 261-9498

Mon–Fri · 7:30 am – 5:00 pm Pacific

Email

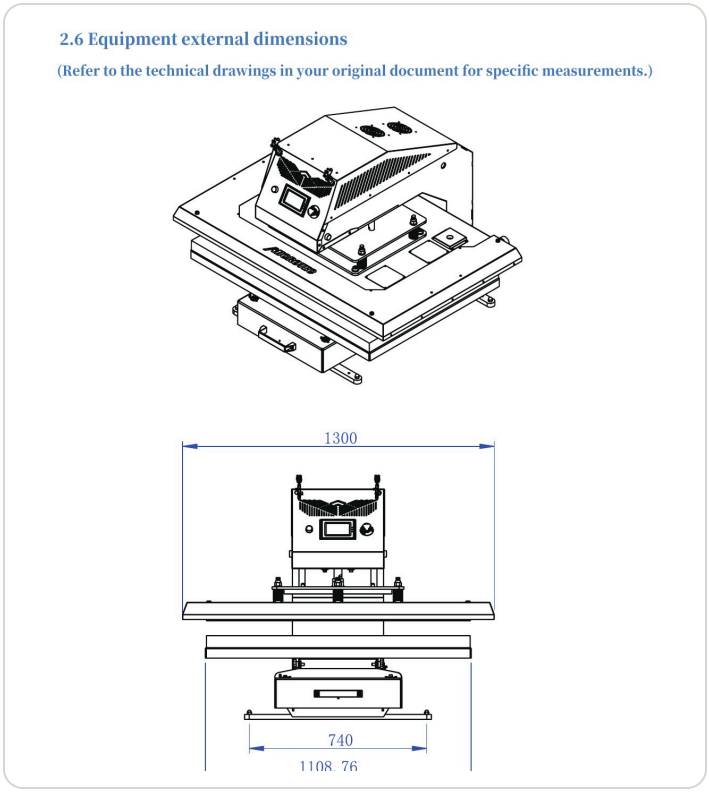
sales@microtecusa.com

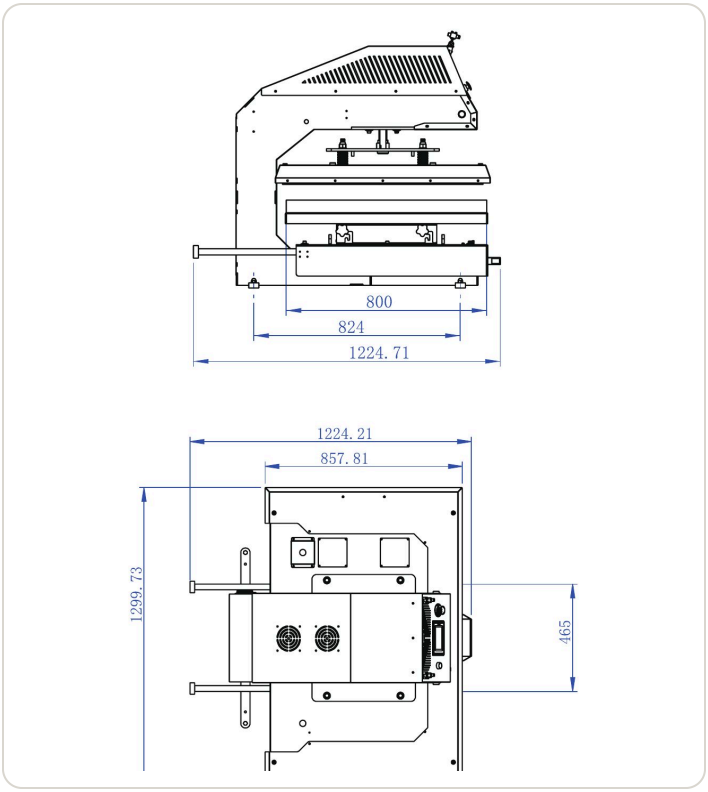
Free lifetime tech support

Dimensions & diagrams

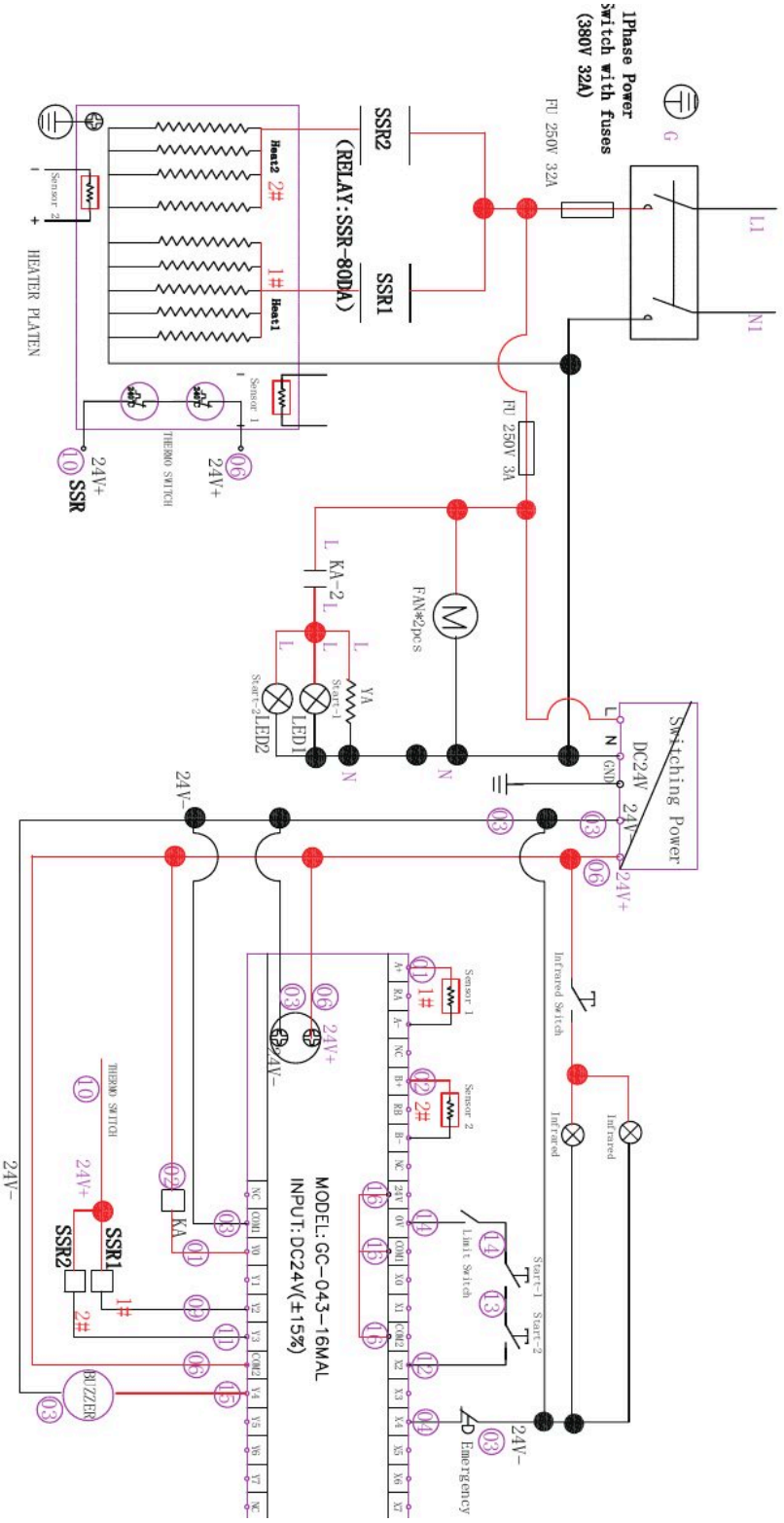
For service technicians. **Unplug the machine** and **disconnect the air** before opening any cover.

Dimensions (mm)

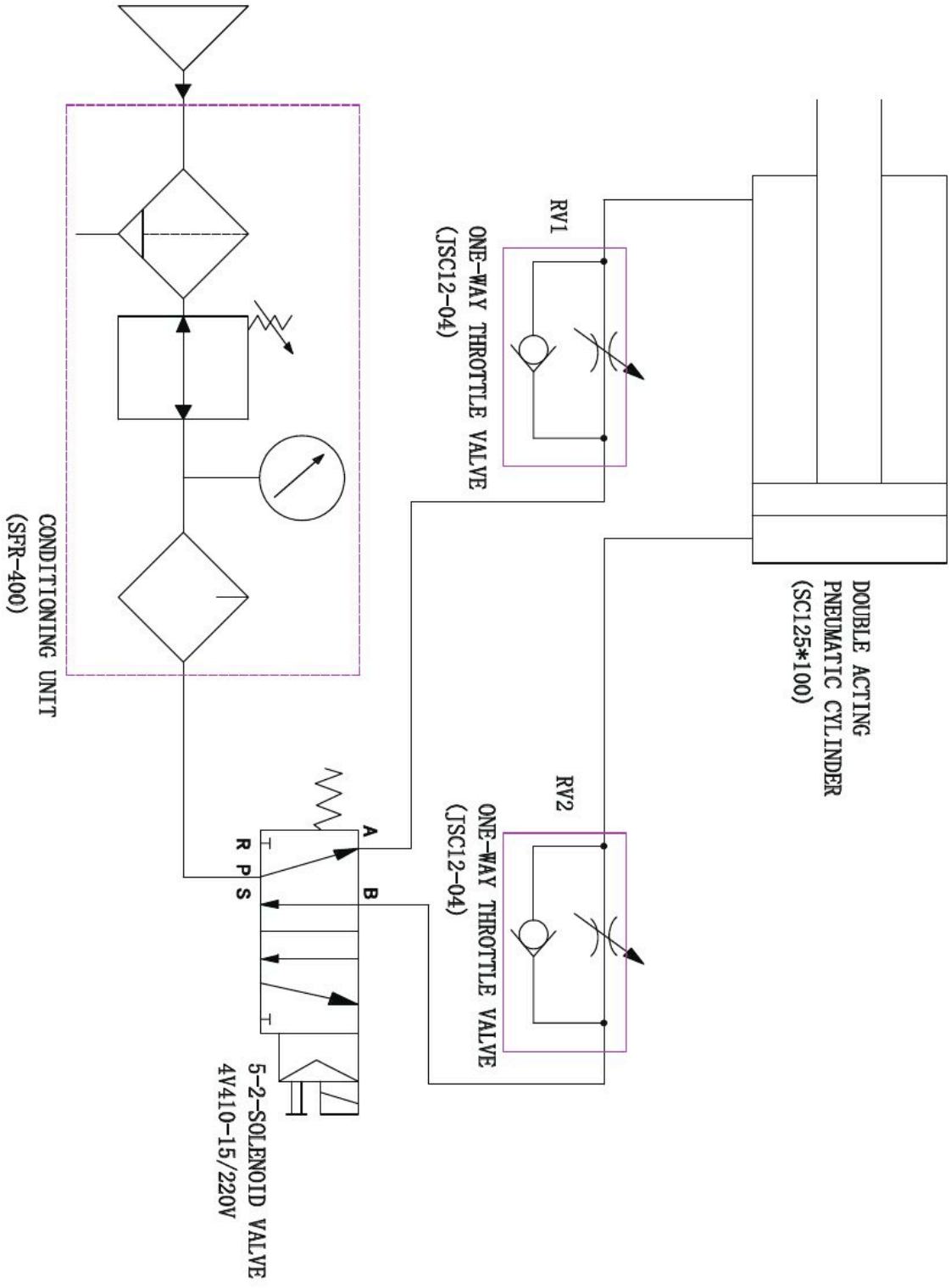




Wiring diagram



Air diagram


DOUBLE ACTING
PNEUMATIC CYLINDER
(SC125*100)
RV1
ONE-WAY THROTTLE VALVE
(JSC12-04)
RV2
ONE-WAY THROTTLE VALVE
(JSC12-04)
A
B
R P S
5-2-SOLENOID VALVE
4V410-15/220V
CONDITIONING UNIT
(SFR-400)