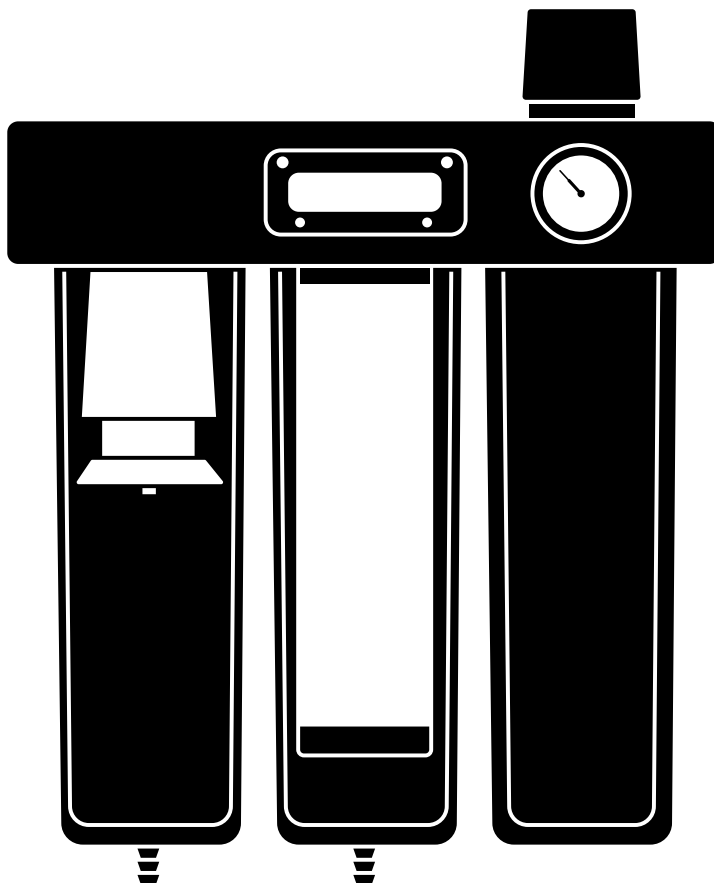
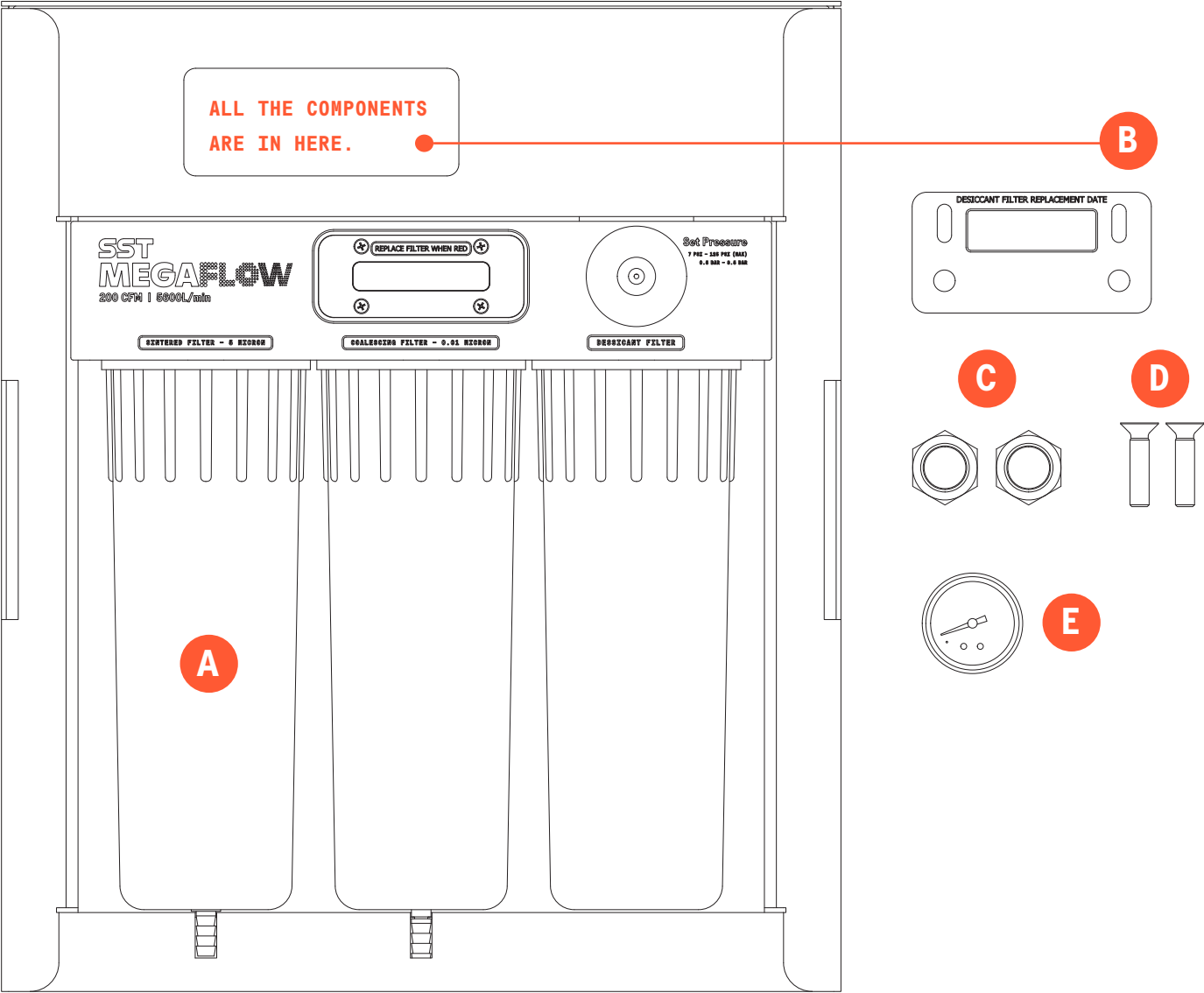


# MEGAFLUX

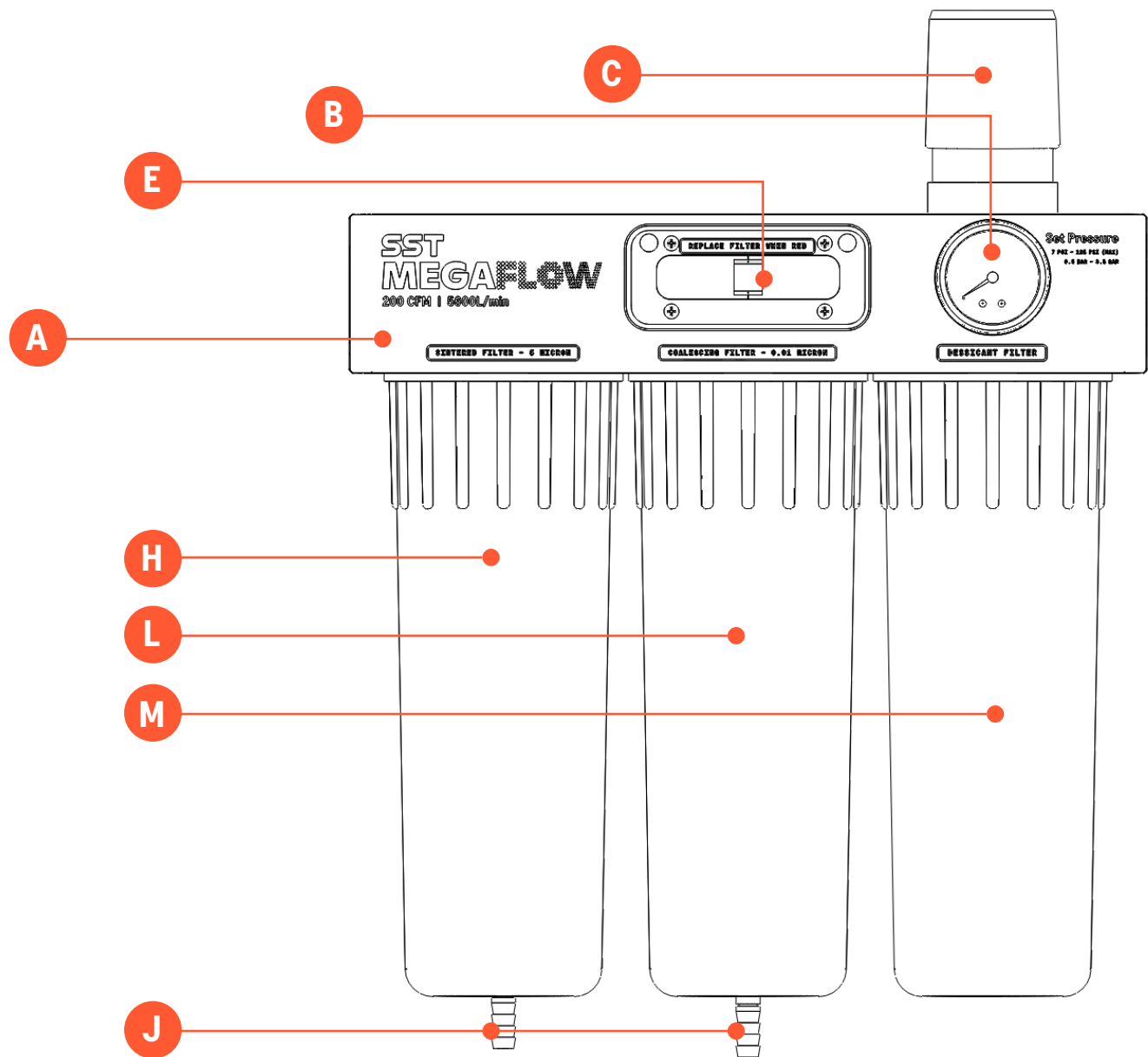
## 3-Stage Shop Air System



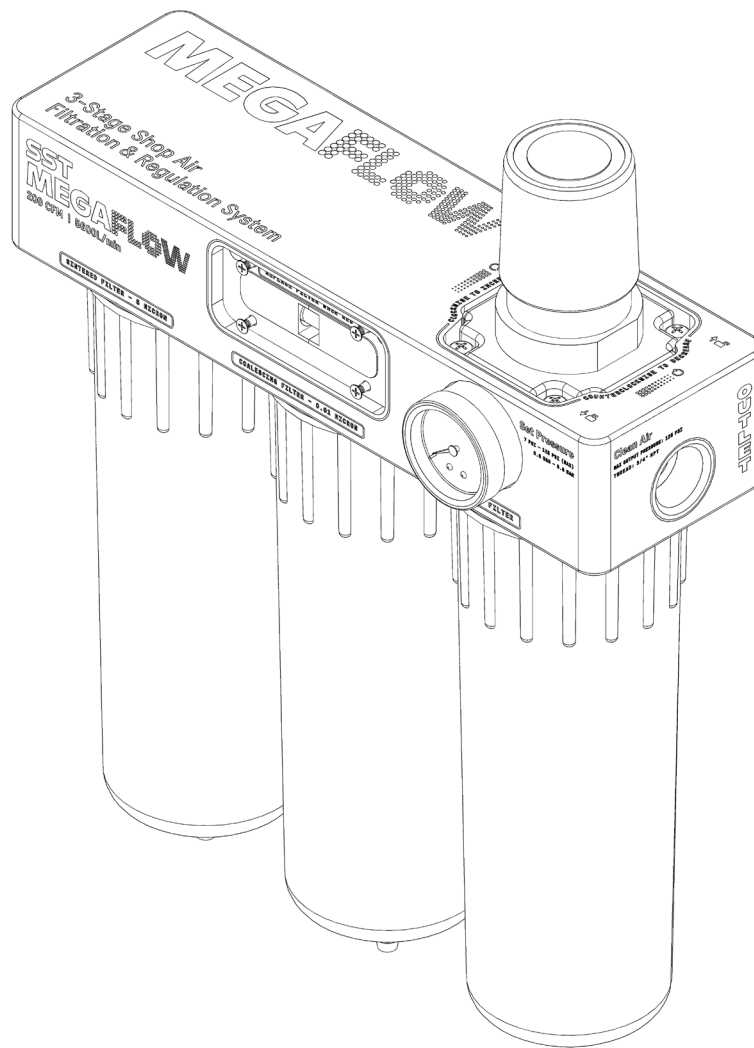
01	Introduction	→
02	General Safety	→
03	Features	→
04	Operations & Maintenance	→
05	How to Use	→
06	Return Policy & Warranty	→
07	Liability	→



Nº	Part Name
A	Megaflow
B	Mounting Bracket
C	3/4" NPT to 1/2" NPT
D	Mounting Plate Screws
E	Pressure Gauge



Nº	Part Name	Amt. #	Nº	Part Name	Amt. #
A	MEGAFLOW Manifold Body	1	K	Sintered Filter Flow Nut	1
B	Pressure Gauge	1	L	Coalescing Filter	1
C	Output Pressure Adjustment Knob	1	M	Dessicant Tube	1
D	Drain Pin and Spring	2	N	Flow Blade	2
E	Filter Health Indicator	2	O	Dessicant Upper Mesh Filter	1
F	Filter Canister Housing	3	P	Dessicant Lower Mesh Filter	1
G	Filter Canister Housing O-Ring	3	Q	Sintered Filter O-Ring	1
H	Sintered Filter	1	R	Coalescing Filter O-Ring	X
I	Sintered Filter Cover Bell	1	S	Dessicant Stage O-Ring 1	X
J	Threaded Post	2	T	Dessicant Stage O-Ring 2	X



### Stage 1 | Sintered Filter 5 Micron

Brass Filter which lasts longer than PE filters. Removes 95% of the moisture, oil, and debris particles up to 5micron.

### Stage 2 | Coalescing Filter 0.1 Micron

High Quality Coalescing material. Removes 99.99% of the moisture, moisture vapor and oil particles up to 0.01 micron

### Stage 3 | Desiccant Filter 0.01 Micron

Diffuse air to use desiccant beads efficiently dries out the rest of the humidity and regulates the outlet air.

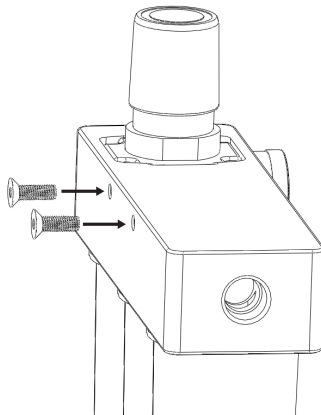
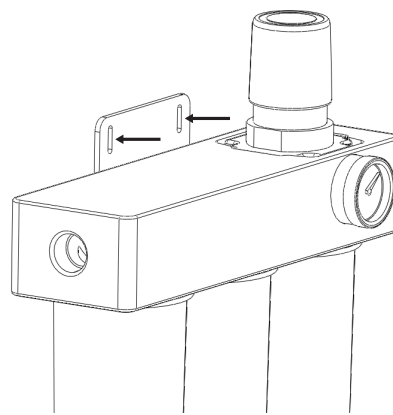
**CHEMICAL COMPATIBILITY WARNING**

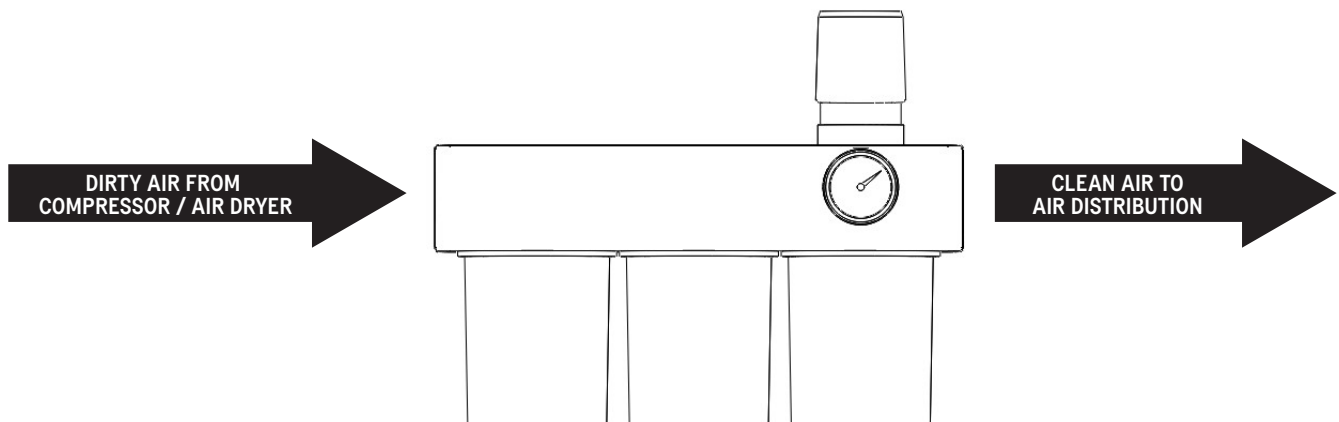
Polycarbonate is a tough and transparent polymer, but is susceptible to chemical damage from compressors lubricated with synthetic oils, or oils containing phosphate esters or chlorinated hydrocarbons. Exposure to these chemicals can cause hazing, cracking, or explosions.

**DO NOT USE MEGAFLW IN SYSTEMS WITH THESE CHEMICALS.**

**1. Remove from Packaging****2. Install pressure gauge**

- a. Apply teflon tape to male thread to ensure a proper seal

**3. Mount your MEGAFLW****BACK MOUNT USING M8 HOLES ON BACK****FRONT MOUNT USING MOUNTING BRACKET**



### 4. Plumb Air Lines

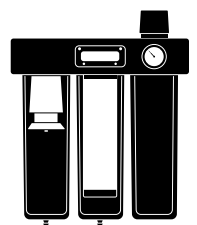
- a. 3/4" NPT Inlet and outlet
- b. Use included 3/4" to 1/2" Adapters

### 5. Apply air pressure

### 6. Purge your outlet air for 1 min at 60-100PSI

- a. This clears out any desiccant dust from assembly and transport

### 7. Enjoy!



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<b>Unit Weight</b>	5.35Kg
<b>Unit Dimensions</b>	360 x 290 x 90mm
<b>Supply Input</b>	3/4" NPT
<b>Regulated Output</b>	3/4" NPT
<b>Set Pressure</b>	7 - 125 PSI (0.5 - 8.5 Bar)
<b>Max Input Pressure</b>	220PSI (15Ba)
<b>Max Air Flow</b>	200 CFM
<b>Flow rate</b>	See Chart (next page)
<b>1st Stage</b>	5.0 Micron Brass Sintered Filter
<b>2nd Stage</b>	0.01 Micron Coalescing Filter
<b>3rd Stage</b>	Silica Desiccant Dryer





#### **WARNING**

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in mechanical failure, pneumatic explosion, and/or serious injury.

**SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE**

## 1. Work Area Safety

- a. Keep the work area clean and well-lit. Cluttered or dark areas invite accidents.
- b. Do not operate manufacturing machines, CNC or otherwise, in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Machinery may create heat or sparks which may ignite dust or fumes.
- c. Keep children and bystanders away while operating machinery. Distractions can cause you to lose control of the machine.

## 2. Personal Safety

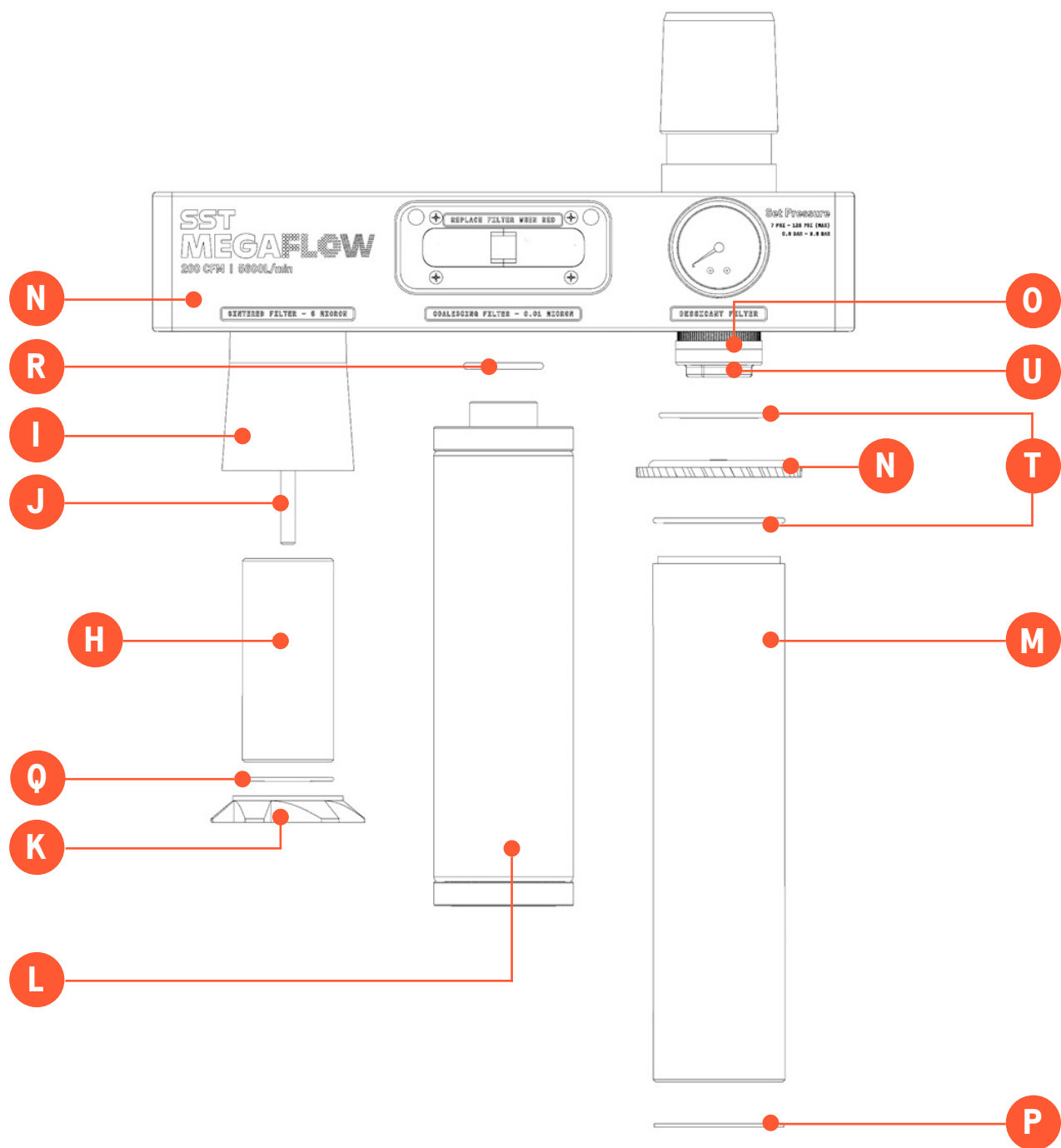
- a. Stay alert, watch what you are doing, and use common sense when operating machinery. Do not use a machinery while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating machinery may result in serious personal injury.
- b. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust masks, gloves, or protective clothing appropriate to the conditions will reduce personal injuries.
- c. Do not use damaged or worn pneumatic hoses or connectors. Damaged components risk catastrophic failure at high operating pressures

### 3. Use & Care

- a. Do not force MEGAFLOW to perform beyond its rated power output or temperature capabilities. Use the correct MEGAFLOW for your application. The correct MEGAFLOW will do the job better and safer at the parameters for which it was designed.
- b. Service should never be performed without first disconnecting the air input from MEGAFLOW. If the air input cannot be physically disconnected, the air supply should be locked-out and tagged-out by the technician.
- c. Install the MEGAFLOW out of the reach of children or animals, and do not allow persons unfamiliar with MEGAFLOW or these instructions to operate the system. High pressure pneumatics are dangerous in the hands of untrained users.
- d. Maintain your MEGAFLOW. Check for misalignment or binding of filter components, breakage of parts, and any other condition that may affect the MEGAFLOW's operation. If damaged, have replace the affected components before use. Accidents can result from poorly maintained air regulator systems.
- e. Use MEGAFLOW, pneumatic tools, and accessories, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of a high pressure air regulator for operations different from those intended could result in a hazardous situation.

### 4. Service

- a. Have your MEGAFLOW serviced by a qualified repair person using only identical replacement parts. Doing so will ensure that the safety of the power tool is maintained.

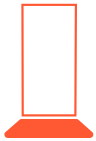


No	Part Name	Amt. #
H	Sintered Filter Cover Bell	1
I	Sintered Filter Cover Bell	1
J	Threaded Post	1
K	Sintered Filter Flow Nut	1
L	Coalescing Filter	1
M	Dessicant Tube	1
N	Flow Blade	2

No	Part Name	Amt. #
O	Dessicant Upper Mesh Filter	1
P	Dessicant Lower Mesh Filter	1
Q	Sintered Filter O-Ring	1
R	Coalescing Filter O-Ring	1
T	Dessicant Stage O-Ring	2
U	Regulator Pin Cap	1

**IMPORTANT**

During all maintenance procedures, air input should be physically disconnected to prevent injury or damage.



## Stage 1 – Sintered Filter

Removes 95% of the moisture, oil, and debris particles up to 5 micron.

**REPLACE WHEN:** With air input applied, the MEGAFLOW Filter indicator shows **RED**.

- The element should be replaced every 6 months to 1 year, depending on the use levels.

Link to video coming soon!

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**REPLACEMENT PROCEDURE :**

1. Ensure air input has been disconnected from the unit
2. Remove the 1st stage Filter Canister Housing by unscrewing it from the MEGAFLOW Manifold Body
3. Unscrew the Sintered Filter Flow Nut to allow the used Brass Sintered Filter Element to fall
4. Place the new Brass Sintered Filter Element on top of the Sintered Filter Flow Nut, with the O-ring in between, and screw onto the threaded post
  - a. DO NOT OVERTIGHTEN
5. Visually confirm that the filter is experiencing no misalignment
6. Install the replacement coalescing filter
  - a. DO NOT OVERTIGHTEN
7. Re-install the Filter Canister Housing
  - a. Ensure O-Ring is properly seated in the top lip groove
  - b. Hand Tighten Only



## Stage 2 – Coalescing Filter

Removes 99.99% of the moisture, moisture vapor and oil particles up to 0.01 micron

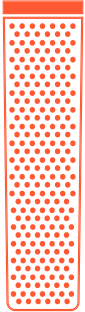
**REPLACE WHEN:** Filter status indicator shows **RED** with input air applied

- The element should be replaced every 6 months to 1 year, depending on the use levels.

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### REPLACEMENT PROCEDURE :

1. Ensure air input has been disconnected from the unit
2. Remove the 2nd stage Filter Canister Housing by unscrewing it from the MEGAFLOW Manifold Body
3. Remove the used coalescing filter by unscrewing it
4. Install the replacement coalescing filter
  - a. DO NOT OVERTIGHTEN
5. Re-install the Filter Canister Housing
  - a. Ensure O-Ring is properly seated in the top lip groove
  - b. Hand Tighten Only



## Stage 3 – Desiccant Dryer

Diffuses pressurized air through desiccant bead tower to extract remaining the humidity.

**REPLACE WHEN:** The silica beads shift from blue to **PINK**

### REPLACEMENT PROCEDURE :

1. Ensure air input has been disconnected from the unit
2. Remove the 3rd stage Filter Canister Housing by unscrewing it from the MEGAFLOW Manifold Body
  - a. Keep the canister house vertical to avoid spilling desiccant
3. Remove the black flow blade from the top of the desiccant tube
4. While holding the desiccant tube against the canister housing, dump the silica beads
  - a. The beads can have their absorbency restored by baking them in the oven at 350F for about two hours or until they are blue again
5. Refill the desiccant tube using a funnel
  - a. Leave about 1" unfilled at the top to allow space for the regulator bottom cap
6. Re-install the black flow blade and O-rings
7. Re-install the Filter Canister Housing
  - a. Ensure O-Ring is properly seated in the top lip groove
  - b. Hand Tighten Only
8. Purge your outlet air for 1-3min at 60-100PSI
  - a. During transport and container transfer, the desiccant beads rub against each other and wear down - creating a fine desiccant powder which must be exhausted prior to use
  - b. Wear proper PPE during purge to protect against harm caused from high pressure air and or inhalation of fine silica dust



### **IMPORTANT**

Ensure you purge air after replacement!!!

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**DRAIN STAGE 1 & STAGE 2 CANISTERS**

Interval: Daily

Operation: Push in drain pins to drain collected condensate and fluids from the canisters

**READ FILTER HEALTH INDICATOR**

Interval: Weekly

Operation: Observe the indicator when pressure is applied - any red shown indicates a loss of coalescing filtering capability. A fully red indicator would indicate a completely clogged and exhausted filter, requiring immediate replacement.

**CLEAN STAGE 3 STAINLESS FILTERS**

Interval: Annually

Operation: Remove the top and bottom stainless filters from the MEGAFLOW assembly, and blow them clean of any desiccant particles using compressed air.

**SERVICE FILTER ELEMENTS**

Interval: At a minimum, per stage

Stage 1: 6 months - 1 year

Stage 2: 6 months - 1 year

Stage 3: 1 month - 6 months

**! PROBLEM: DRAINS LEAKING**

SOLUTION: Move drain pins to ensure o-rings make a proper seal with

**! PROBLEM: AIR LEAKING FROM CANISTER TOP THREADS**

SOLUTION: Check that O-ring at top of canister is not pinched or damaged

**! PROBLEM: POOR OUTPUT PERFORMANCE**

SOLUTION:    Ensure sintered filter isn't clogged and exhausted  
                  Observe Filter Health Indicator to determine if Coalescing filter  
                  is clogged  
                  Clean the stage 3 stainless filters of any desiccant particles

**! PROBLEM: DESICCANT LIFE TOO SHORT**

SOLUTION:    Ensure compressor tank drain is actuating every pump cycle  
                  Ensure MEGAFLOW is not plumbed with air intake at a low  
                  point, allowing condensate to drain into the input  
                  Install refrigerated air dryer before MEGAFLOW



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## **Limited Warranty, Limitations of Warranty and Disclaimer of Liability**

### **LIMITED PRODUCT WARRANTY**

STUPID SIMPLE TOOLS™ warrants that the MEGAFLOW™ (the “Product”) will, at the time of purchase by the first retail purchaser (“End User”), comply with the product specifications (the “Specifications”) published by Stupid Simple Designs, LLC (“SST” or the “Company”). This warranty is made only to the End User and is not assignable.

### **PRODUCT WARRANTY DISCLAIMER. LIMITATION OF DAMAGES.**

TO THE EXTENT PERMITTED BY LAW AND EXCEPT FOR THE EXPRESS LIMITED PRODUCT WARRANTY SET FORTH IN THIS AGREEMENT, SST MAKES NO (AND EXPRESSLY DISCLAIMS ALL) WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, WITH RESPECT TO THE PRODUCTS SUPPLIED UNDER THIS AGREEMENT, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR ARISING FROM COURSE OF PERFORMANCE, DEALING, USAGE OR TRADE. WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, SST MAKES NO CLAIM, REPRESENTATION, OR WARRANTY OF ANY KIND AS TO THE UTILITY OF THE PRODUCTS FOR THE END USER'S INTENDED USES.

### **REMEDY FOR BREACH OF WARRANTY AND LIMITATION OF DAMAGES.**

If notified in writing of a valid warranty claim within three months of the date of purchase by the End User, SST will, at its option, (i) correct the non-conforming Product so that it materially complies with the Specifications; (ii) provide a replacement Product; or (iii) terminate the Agreement and refund the purchase price paid for the Product. SST shall not be obligated to correct, cure, or otherwise remedy any nonconformity or defect in the Product if the End User has made any changes whatsoever to the Product, if the Product has been misused or damaged in any respect, or if the End User has not reported to SST the existence and nature of such nonconformity or defect promptly upon discovery thereof. IN NO EVENT SHALL SST BE LIABLE FOR ANY PUNITIVE, RELIANCE, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING LOST REVENUE, LOST PROFITS, OR LOST SAVINGS) IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, HOWEVER CAUSED AND UNDER ANY THEORY, EVEN IF IT HAS NOTICE OF THE POSSIBILITY OF SUCH DAMAGES. This section states SST's entire liability and the End User's sole and exclusive remedy for breach of warranty.

## General Machining and Fabrication Equipment Safety Warnings



### **WARNING**

**Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in mechanical failure, pneumatic explosion, and/or serious injury.**

**SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE.**

### **WORK AREA SAFETY**

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2. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust masks, gloves, or protective clothing appropriate to the conditions will reduce personal injuries.
3. Do not use damaged or worn pneumatic hoses or connectors. Damaged components risk catastrophic failure at high operating pressures.

## Assumption of Liability

Air Powered Machinery and Pneumatic Equipment are useful tools when installed with STUPID SIMPLE TOOLS® products in accordance with proper safety protocols by field professionals. When configured with a high pressure air compressor, the MEGAFLOW is a powerful industrial product designed for installation and configuration by manufacturers and professionals and is inherently dangerous. By installing and/or operating a MEGAFLOW Air filter and Regulator, you agree to take responsibility for any and all risks associated with the installation and operation of the MEGAFLOW Air Filter and Regulator and any associated up or down-line equipment.

US and International Patents Pending



### **IMPORTANT**

Pressurized air generation requires compressing multiple cubic feet of air, and the ambient humidity in it, resulting in substantial water condensation in high humidity areas. MEGAFLOW IS NOT DESIGNED TO TAKE THE PLACE OF AIR DRYER SYSTEMS.

# SST

## Thank you for your purchase!

If you have any issues, please contact us at  
our email.

CONTACT

**SUPPORT @ STUPID SIMPLE . TOOLS**

CHECK OUT OUR OTHER TOOLS!

**WWW . STUPID SIMPLE . TOOLS**

