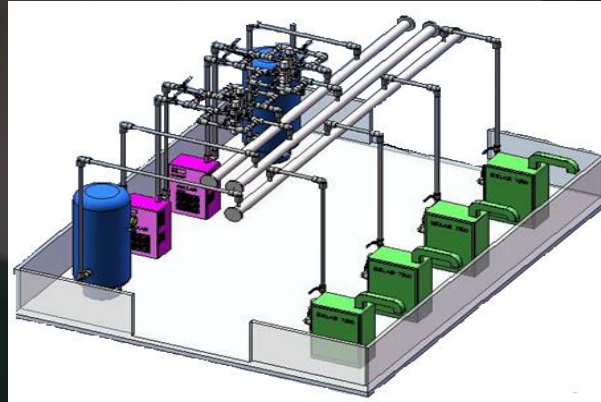


THE INVISIBLE POWER OF PRODUCTION



Every successful factory has an invisible power working behind every second of production.

PERFECT COMPRESSED AIR TECHNOLOGY CO., LTD.
Complete Compressed Air Solution Since 2007

THE BREATH OF YOUR FACTORY

A healthy air system creates a healthy factory

HEART

AIR COMPRESSOR

Generates air power

LUNG

AIR RECEIVER TANK

Stores air and stabilizes pressure

KIDNEY

AIR FILTER

Removes dust, oil and water

PROTECTOR

AIR DRYER

Removes moisture

BLOOD VESSEL

AIR PIPING

Delivers air to every machine

PRODUCTION

YOUR MACHINE

Keeps production running

PCAT takes care of every breath of your factory — from air generation to your production line.

**WE DON'T SELL
AIR COMPRESSORS.**

**WE KEEP
YOUR PRODUCTION
RUNNING.**

From design and manufacturing to installation and maintenance, PCAT takes care of every breath of your factory.





THE HEART THAT NEVER STOPS

AIR COMPRESSOR

Reliable air generation for continuous production.

SCREW

SULLAIR
HITACHI
ELGI
KAISHAN

PISTON

SWAN
PUMA
FUSHENG

- ✓ Sales
- ✓ Installation
- ✓ Preventive Maintenance
- ✓ Overhaul
- ✓ Spare Parts

THE LUNG OF YOUR FACTORY

A large white cylindrical air receiver tank is being hoisted by a red UNIG crane. The crane's boom is extended diagonally across the frame. The tank is suspended by several cables. In the background, there are industrial buildings and other construction equipment. The scene is set in a factory environment.

AIR RECEIVER TANK

BUILT TO HOLD POWER

50–20,000 L SS400 / SUS304

Capacity

Materials

FROM STEEL TO POWER

Manufacturing process & quality control

ถังพ่นทรายด้านนอก สังกะสีทนนาน 10 ปี รองพื้นสีกันสนิม



01

SURFACE PREPARATION

Sand blasting for long-term paint adhesion

วิธีทดสอบ Hydrostatic test 1.5 เท่าของแรงดัน = 15 บาร์



02

HYDROSTATIC TEST

Pressure test before delivery



03

FINISHED TANK

Ready for factory installation



04

DELIVERY & INSTALL

Handled with professional equipment

Every tank is inspected and tested before delivery.

CLEAN & DRY AIR

Air dryer solution

DRY AIR. RELIABLE PRODUCTION.



BEFORE



AFTER SERVICE

SERVICES

- Inspection
- Cleaning
- Repair
- Maintenance
- Performance check

Friulair | M-PLUS | SMC | ORION | CKD | domnick hunter



SMALL FILTER. BIG PROTECTION.

AIR FILTRATION SOLUTION

Clean compressed air protects production quality and extends machine life.

- ✓ M-PLUS Main Line Filter
- ✓ OEM Filter Element
- ✓ Water removal
- ✓ Oil removal
- ✓ Dust removal
- ✓ Medical Filter

Clean Air Starts Here

ALWAYS READY

Filter stock & technology



Construction

A dynamic approach to design, material selection and construction means that M-Plus Filtration is at the forefront of filtration technology. Our internal Research and Development team constantly identify, evaluate and implement enhancements to improve the size, cost and performance of our market leading range. Typically, most alternative filter elements are manufactured to M-Plus Filtration's standard construction (illustrated below).

Filter Element Design and Materials

Bonded Microfibre Glass Material High quality fibre material is used to manufacture the media pack. This material, with a bonded structure, withstands high temperatures, is completely inert and is immune to degradation. With sub-micron fibre diameters and an extremely high void volume (as seen in this cross-section), it is available in 5 different grades for varying efficiencies.

Stainless Steel perforated support cylinders, twice as strong as galvanized steel, can withstand 7 bar (100 psi) in either direction.

Deep Bed Multi-Wrap Technology is used to form the media pack. This offers low differential pressure, extremely high oil removal efficiencies and proven consistent performance with long service life.

Extra Stainless Steel inner support on larger reverse flow elements is provided by the addition of a split spring coil welded to the inner cylinder. This feature ensures these elements meet the demands of "backdrop" flow and do not rupture causing downstream contamination.

High Media W-Weave ensure perfect sealing within the filter housing whilst withstanding high temperatures of over 120°C (250°F).

Particulate Pre-Filtration on both sides of the media pack offers protection with air flow in either direction. This fine screen fabric also enhances the strength of the filter pack and increases filter life.

Polyester Fibre Drainage Screens have now become industry standard. This polyester material collects contaminants from the media pack and allows it to gravitate down to the space zone of the filter base thus preventing any oil carryover. Unlike reticulated foams which can seriously degrade causing downstream contamination, this material has a high tensile strength and withstands all the demands of compressed air filtration.

Example of a typical reticulated foam device exhibiting considerable degradation, a much less robust solution than the M-Plus polyester drainage device.

■ M-Plus's filter element performance guarantee is extended for a further 6 months. ■



LARGE STOCK FAST DELIVERY

Reduce production downtime with available filter elements and on-site replacement service.

- Lower pressure drop
- Better air quality
- Lower maintenance risk

THE BLOOD VESSEL OF YOUR FACTORY

PROFESSIONAL AIR PIPING INSTALLATION

Galvanized Pipe • Stainless Steel SUS304 • Threaded & Welding System

FROM DESIGN TO INSTALLATION

Engineering solution



ENGINEERING

System Design
Air Flow Calculation
Equipment Selection

INSTALLATION

New Factory Project
System Modification
Capacity Expansion

IMPROVEMENT

Reduce Pressure Drop
Improve Air Quality
Energy Saving

ONE STOP

Compressor
Tank
Dryer
Filter
Piping

One partner for your complete compressed air system.

PREVENT PROBLEMS BEFORE THEY HAPPEN

Preventive maintenance & overhaul



REGULAR MAINTENANCE MEANS RELIABLE PRODUCTION

- Air Filter Replacement
- Oil Filter Replacement
- Oil Separator Replacement
- Compressor Oil Change
- Inspection & Troubleshooting

Photo placeholder: replace this image with PCAT compressor spare part service photo later.

INDUSTRIES WE SERVE

Trusted across various production lines

Automotive

Food & Beverage

Pharmaceutical

Electronics

Plastic Industry

General Manufacturing

Compressed air is used in almost every modern factory — PCAT makes it reliable.

WHY CHOOSE PCAT?

More than a supplier

Air Receiver Tank Manufacturer

Manufacturing capability with real pressure testing

Complete Air System Solution

Compressor, tank, dryer, filter and piping

Professional Service Team

On-site support and technical maintenance

Spare Parts Stock

Ready-to-deliver filters and essential parts

Energy Saving Improvement

Reduce pressure drop and improve performance

18+ Years Experience

Established since 2007

OUR PROVEN WORK

Real factory. Real solution.



We don't show catalog pictures. We show real experience.

THE POWER BEHIND YOUR PRODUCTION

PERFECT COMPRESSED AIR TECHNOLOGY CO., LTD.

COMPLETE COMPRESSED AIR SOLUTION

Tel: 02-194-5933, 02-194-5934
Email: perfect.pcat@gmail.com
Website: www.perfectair.co.th