



SAENGVITH 2000

Sales & Services of Scientific and Mechanical Instruments

Scientific Instruments

Analytical
Environmental
Pharmaceutical
Food & Beverage
Petrochemical industry



Mechanical Instruments

R&D University
Automotive Field
Educational materials
Industrial applications
Vacuum Pumps & Coating Systems



Service

After
sales
service



OUR EXPERIENCES



SAENGVITH 2000 BE THE PART OF YOUR SOLUTIONS



"มองหาเครื่องมือวิจัย นึกถึงแสงวิทย์2000" Facebook

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COMPUTRAC® Vapor Pro® XL AUTOSAMPLER

Automated Chemical-Free Moisture Analyzer

- Automation to test up to **16 samples** with individual test profiles.
- Accurate and reliable alternative to *Karl Fischer titration*



RH-Sensor Technology



Zero Chemical



LCD Touchscreen

COMPUTRAC® Vapor Pro® XL

Chemical-Free Moisture Analyzer

Results: % moisture, ppm moisture, µg water

Moisture Range:

10 ppm (10 µg | 0.001 %) to 100%

Temp. Range: Up to 300 °C

Method Compliance:

ASTM D7191-10, ASTM D7 546-15



RH-Sensor Technology



Zero Chemical



LCD Touchscreen

COMPUTRAC® Max® 4000XL

Moisture & Solid Analyzer

Results: Moisture, Solids, Dry Weight, Purity

Moisture | Solid Range: 0.005% to 100%

Temp. Range: Up to 275 °C

Heating Element: Nickel Chromium

Method Compliance:

ASTM D6980-12, ASTM D7232-06,

ASTM C471M-16a, 21 CFR Part 11 compliant



Rapid Cooling System



Multistage Testing



Loss On Drying (LOD)

COMPUTRAC® Max® 5000XL

Moisture, Solid & Ash Analyzer

Results: Moisture, Solids, Dry Weight, Ash, LOI

Moisture | Solids Range: 0.1 % to 99.9%

Ash | LOI Range: 0.5% to 100%

Temp. Range: Up to 600 °C

Heating Element: Ceramic

Method Compliance: 21 CFR Part 11 compliant

ASTM D6980-12, ASTM D7232-06, ASTM C471M-16a



Self-Cleaning



Multistage Testing



Loss On Ignition (LOI)

Loss On Drying (LOD)

WIPE-FILM DISTILLATION

เครื่องระเหยสารแบบเคลือบฟิล์มบาง / เครื่องกลั่นแยกระดับโมเลกุล

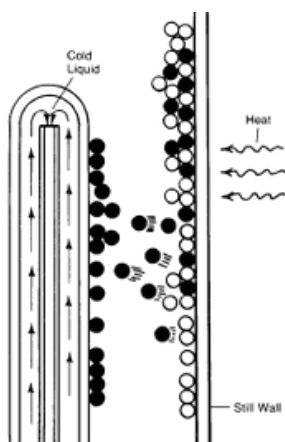


Laboratory



Pilot plants & Processing

Diameter (Inches)	Typical Flow Rates (Kg/hr)
2	0.2 - 1.2
4	0.5 - 4.0
6	1.0 - 22
9	10 - 60
12	20 - 120
20	50 - 250



Wiped-Film still technology

Applications

- Purification After Extraction
- Concentration / Evaporation
- Heat-Sensitive Materials
- Molecular Distillation
- Deodorization / Decolorization
- Solvent Stripping

Still Versions

- Wiped-Film **Molecular Still**

designed for the distillate is of **high boiling point** and/or **extremely heat sensitive**

- Wiped-Film **Evaporator**

designed for where there is a percentage of **moderate or low boiling distillate**

FRACTIONAL DISTILLATION

เครื่องกลั่นแยกลำดับส่วน



Laboratory

Pilot plants & Processing



NUTSCHE FILTERS-DRYERS

เครื่องกรองแยกแบบระบบปิด



DEWAR FLASKS

ภาชนะสำหรับบรรจุไนโตรเจนเหลว



SAMPLE PREPARATION FOR GC, GC / MS

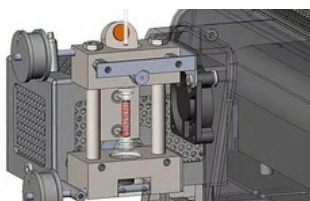
เครื่องเตรียมตัวอย่างสำหรับ GC, GC/MS

CDS Instrument can be used in universities, forensic labs, labs, government settings, and more for all your polymer research needs. They are also **compatible with** all major brands of GC/MS including: Agilent, Bruker, Thermo, PerkinElmer, and Shimadzu.

PYROLYSIS

DISC

Drop-In-Sample-Chamber



6000 Series

- Easy Sample Loading & Preparation
- Max Temperature 1,300 °C
- Built-In Leak Check
- Up to 10 Steps Programmable Temperature
- Support Mass Flow Controller



THERMAL DESORPTION

7550 S

- Stand-alone 72 position Auto-Sampler
- Peltier (Option from -20 °C)
- T0-17 Compliant from C₂ to C₄₄



9300 Series

- Heated Transfer Line (350 °C)
- Sample Desorb (400 °C)
- Measure any C₂ up to C₃₃ range from VOC's to SVOC's and non polar compound



PURGE & TRAP

8500 C

- 8 Port High Temp Valve
- Heated Transfer Line (350 °C)
- Patented Foam Sensor
- Hydroguard Wet Trap



8500 A Autosampler

- 110 Position Autosampler
- 4 channels Internal Standard
- Water and Soil Mode
- Dynamic Headspace
- Methanol Extraction





TELEDYNE TEKMAR
A Teledyne Technologies Company
U.S.A.

TOTAL ORGANIC CARBON ANALYZER (TOC)

เครื่องวิเคราะห์สารอินทรีย์ในน้ำ / ของแข็ง

TOTAL ORGANIC CARBON ANALYZER (TOC)

UV/ Persulfate FUSION



- TOC measurement range of 0.2 ppb - 4,000 ppm
- Automated self-diagnostic tools
- Automatic dilution capabilities from stock standards or samples



Simplicity

Combustion TORCH



- TOC measurement range of 50 ppb - 30,000 ppm
- Automated self-diagnostic tools
- Automatic dilution capabilities from stock standards or samples



Accuracy

Combustion LOTIX



- TOC measurement range of 50 ppb - 20,000 ppm
- No costly syringe drive or 7- port valve
- Easy to use software



Durability

SAMPLE PREPARATION FOR GC, GC/MS

Purge & Trap

Volatile Organic Compounds (VOC) Instrumentation



LUMIN

Concentrator



AQUATek LVA

Liquid Vial Autosampler



Atomx XYZ

Autosampler and Concentrator system

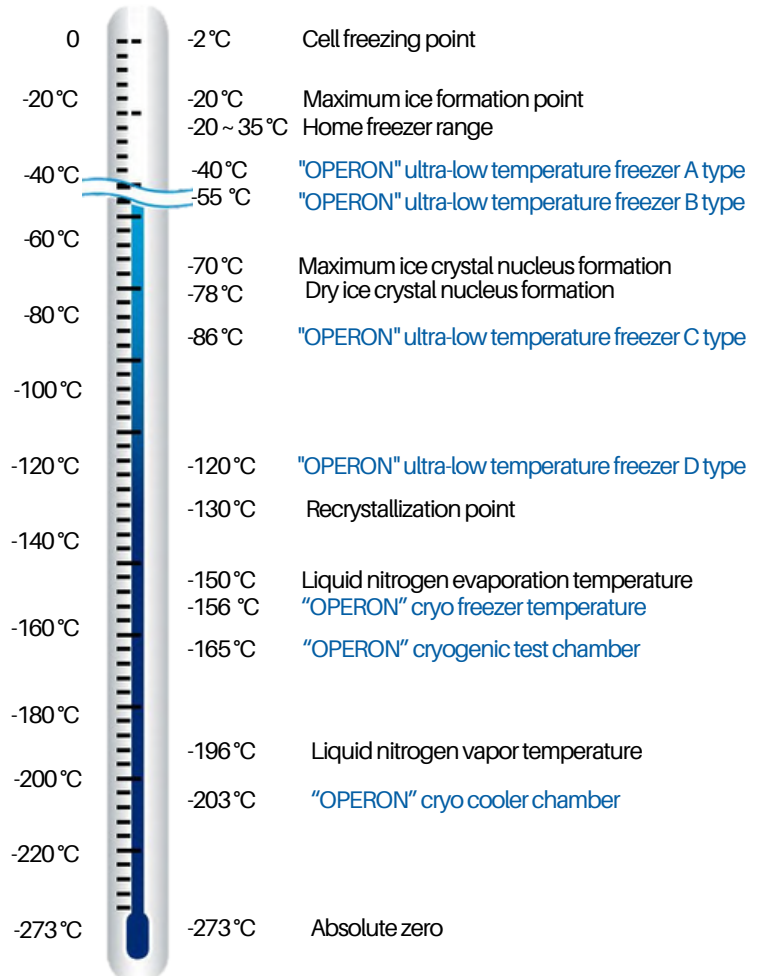
FREEZER / FREEZE DRYER

ULTRALOW TEMPERATURE & CRYOGENIC FREEZER

เครื่องแช่แข็งอุณหภูมิต่ำ / เครื่องแช่เยือกแข็งแบบ CRYOGENIC

Product Types :

- Cryogenic freezer (CFQ)
- Power plus (DFU-P/DFUD-P)
- Ultralow-upright (DFU)
- Double door (DFUD)
- Ultra safe-Twin Heart (DFU-CUS/DFC-CUS)
- Shelf-cooling type (DFU-V/DFUD-V)
- Chest (DFC)



FREEZE DRYER

เครื่องทำแห้งภายใต้ระบบความเย็นและสุญญากาศ



Applications

- Biotechnology Field
- Semiconductor Field
- Macromolecule Field
- Food & Pharmaceutical Industry
- Hospital & Research laboratory
- Petro-Chemistry Field
- Research & Development

HIGH PURITY WATER SYSTEM

เครื่องผลิตน้ำความบริสุทธิ์สูง

CLiR 5000 series

• TYPE I - Ultrapure Water System

Academy	Citation	Biochem	Genome
Academic	HPLC	Life science	DNA Sequencing
Basic chemistry	GC/MS	Microbiology	PCR
IC buffer	Trace organics	Cell culture	Electrophoresis

- 2.5 LPM of 18 MΩ TYPE 1 Water
- Intuitive, User Friendly Touch-Screen
- Real Time Quality Monitoring
- Compact Design With Remote Dispense Option
- Quick Change, No Tools Cartridge Design
- Large Capacity, Low Cost Consumables Cartridges



Perfect to any Lab Water System

CLiR 3000 series

• TYPE I - Ultrapure Water System

- up to 4.0 LPM of 18 MΩ TYPE 1 Water
- Easy Cartridge Replacement
- Low Operation Cost
- Microprocessing Controlled



INDUSTRIAL



COMMERCIAL



LABORATORY



RESIDENTIAL

HYDRA-DI SERIES

HPL-RO

DEIONIZED WATER SYSTEM

- up to 10 MΩ Water
- Wall Mounted & Low Profile
- Low Resistivity
- Indicating Light
- Economically Produces DI Water
- Comes with Startup Cartridges



REVERSE OSMOSIS PRETREATMENT

- Wall Mounted Design
- 4 Stage Filtration
- 14 Gallon Bladder tank
- Easy Filter Changes
- Variety of options including booster pump and high capacity membranes



RESIDENTIAL



INDUSTRIAL



RESIDENTIAL



INDUSTRIAL



LABORATORY

HOMOGENIZING PRODUCT

เครื่องผสมสารให้เป็นเนื้อเดียวกัน

PRO Scientific Generator Probes

- Made from 316 Stainless Steel and PTFE
- Quick Connect Design for Ease of Use and Safety
- Chemically Compatible with All Cleaning Methods



Handheld or Post-Mounted Laboratory Homogenizer



Bio-Gen PRO200

- The lightest, high torque, most versatile
- 144 W motor with a variable speed adjustment, 5,000 - 35,000 rpm
- Homogenize samples as small as 0.03 ml or as large as 1 L.



PRO 250

- Perfect fit between PRO200 and the benchtop
- 576 W motor with a variable speed adjustment, 10,000 - 30,000 rpm
- Ideal for processing volumes from 0.03 ml to 5 L

Benchtop Homogenizer



PRO D-Series

- High performance motor of 1,305 W
- Have an accurate & smooth digital display and control
- 3 Turn Speed Control Knob for Fine Adjust
- For processing volumes from 0.03 ml to 30 L

Automated Homogenizer

DPS-20 Dual Homogenizing System



- Full automation of mechanical & ultrasonic methods
- Ability to process up to 20 samples in one run
- Can accommodate tubes sizes from 1.5 ml - 50 ml



PRO Scientific

Automated Multi-Prep Rapid Homogenizer



- Rapid automated multi-sample homogenizing
- Process from 1 - 6 samples at the same time
- Samples homogenized in seconds giving you the maximum to process up to 300 samples per hour.
- Can accommodate tubes sizes from 5 ml - 50 ml.
- Can perform 60 oscillations per minute
- Easy Load Spider Tube Racks

LABORATORY PRESS

เครื่องกดอัดชิ้นงาน



BENCHTOP PRESSES & ACCESSORIES

For the Laboratory or Manufacturing Facility

Automatic Presses

- 1 5-48 Tons Clamp Capacity



Manual Presses

- Presses Series Heated & Unheated
- Up to 30 Tons Clamp Capacity

Presses for Special Applications

- STM Presses
- Proppant Crush Test Press
- Pneumatic Low Force Press
- For preparing pellets, bricks, briquettes and cakes



Monarch Hydraulic Presses

- Clamp Force Up to 100 Tons Capacity



Accessories

- Floor Stands
- Heating and Cooling Platen
- Molds, Dies and Test Cylinder
- etc.

LABORATORY EQUIPMENT

เครื่องมือและอุปกรณ์ใช้งานในห้องแลป



PRODUCTS

For Scientific Research, R&D, Testing & Educational Laboratories

Our product range includes:

Autoclave, Biochemistry Analyzer, Biosafety Cabinets, Centrifuges, Incubator, Freezers, Freeze Dryer, Fume Hood, Glassware Washer, Hematology Analyzers, Ice Makers, Furnace, Refrigerators, Rotary Evaporators, Ovens, Spectrophotometers, Test Chambers, Ultrasonic Cleaner, Water Purifier



SUPERCritical FLUID EXTRACTION

เครื่องสกัดสารด้วยแก๊สคาร์บอนไดออกไซด์ในสถานะวิกฤต

Spe-ed SFE-2/4 Analytical/Research Systems

Multi - Vessel Simultaneous Extraction Systems

- Parallel processing of 1 to 4 vessels depending upon model
- Independent control of flow rates to each vessel
- Temperatures to 240 °C
- Pressure up to 10,000 psi (690 BAR)
- Vessels from 5 ml to 1 Liter
- Touch-screen Panel
- Data Logging
- Monitor from Smart Phone

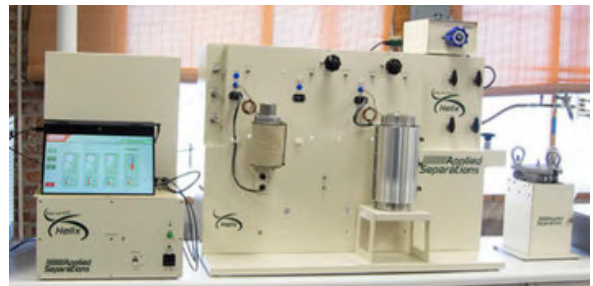


Applications for

Extracting herbs, Fragrances,, Pharmaceuticals, Drying aerogels, Polymer, Dyeing textiles, Decaffeination of coffee and tea, Nanoparticles, etc.

The Helix™ Laboratory of Supercritical and Subcritical Water Systems

- Temperatures to 240 °C with band heater
- Pressure up to 10,000 psi (690 BAR)
- 24mL to 1L vessels standard; up to 5 liter available
- Additional: Stirrer, Separator collector module
- View cell capability to look inside of vessel



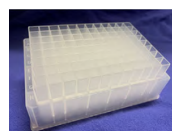
SFE Pilot and Production Scale Systems

- One-on-one to design
- Temperatures up to 650 °C
- Pressures from low to very high, more than 2,000 BAR
- Vessels from 5 Liters to more than 80 Liters
- Supercritical water, Supercritical propane and other gases



Solid Phase Extraction

- Many of our standard silica-based sorbents are packed in Polypropylene standard Cartridge :
C18, C8, PH, CH, C4, SI, COOH, SCX, NH₂ and etc.
- Cartridge Size : 1 mL, 3 mL, 6 mL, 12 mL, 35 mL and 60 mL



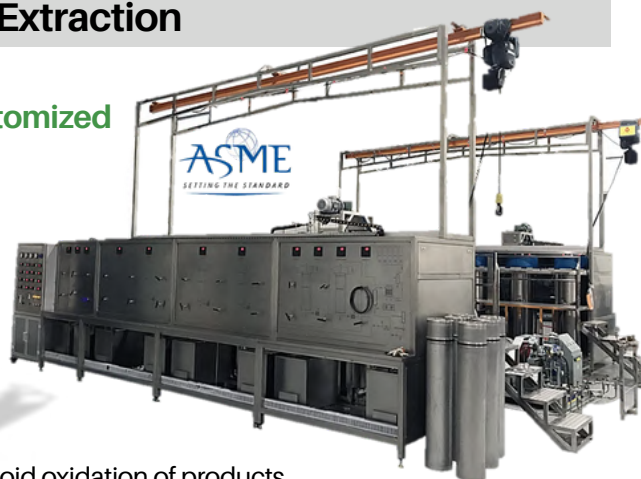
EXTRACTION EQUIPMENTS

Better
China

เครื่องสกัดสารและสมุนไพรด้วยเทคนิคต่างๆ

Supercritical CO_2 Extraction

Standard size start from 0.5 - 300 liters up to customized



- Being capable to provide inert environment to avoid oxidation of products
- Low critical temperature suitable for extraction of heat-sensitive compound
- Fast extraction speed
- No residue of solvent
- supercritical state has large density, dielectric constant, and dissolvability against substances

Essential Oil Extraction, Steam Extraction

Materials suitable for steam distillation

Flower	Rose, lavender, Chamomile Ylang Ylang, Neroli, etc.
Plants	Rosemary, Citronella, etc.
Leaves	Eucalyptus, Mugwort, Patchouli, Pine needle, etc.
Woods	Sandalwood, Agarwood, Cedarwood, etc.



Laboratory



Pilot plants & Processing

Low Temperature & Deep Cold Ethanol Extraction

- The extraction temperature is -40°C to -70°C
- High capacity of ethanol evaporation and the ethanol can be recycled
- Using two stage ethanol recovery technology to prevent crude oil stick on the pipe of evaporator
- Whole continuous production line
- Under deep cold conditions, wax, fat and chlorophyll almost can not be extracted by ethanol



One Stop Services for All Extraction



Consult

Sales

Install

After-Sales Service



CANNABIS & HERB EXTRACTION TURNKEY SOLUTION

ศูนย์เครื่องมือสำหรับการสกัดสารสำคัญแบบครบวงจร



เราพร้อมให้คำปรึกษา, จัดหาเครื่องมือตามความต้องการของลูกค้า, มีบริการหลังการขายและดูแลเครื่องมือจากทางเราโดยตรง

Extraction | Distillation Turnkey Solution



Extraction

Filtration

Winterization / Evaporation

Decarboxylation

1

2

3

4



Vacuum Drying

Crystallization

Column Separation

Distillation

8

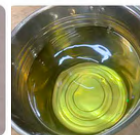
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6

5



Customer
success
case



LAB SOLUTION PROVIDER เครื่องมือและอุปกรณ์สำหรับห้องปฏิบัติการงานและอุตสาหกรรม



Multi-function reactor
with filter system

(Glass or SS version available)



Vacuum freeze dryer



Spray dryer



Rotary evaporator



Wiped-film
Molecular distillation



U.S.A.

LabTech

CONCENTRATION & EXTRACTION INSTRUMENT

เครื่องระเหยสารละลาย / เพิ่มความเข้มข้นของสารตัวอย่าง
เครื่องทำแห้งภายใต้ระบบความเย็นและสุญญากาศ

CONCENTRATION



Rotary Evaporator



Manual
Concentrator



Automated
Concentrator



Automated
Concentrator

EXTRACTION

High Performance Solvent Extractor

เครื่องสกัดสารด้วยตัวทำละลายภายใต้
อุณหภูมิและความดันสูง



HPSE 6

Solid Phase Extraction

เครื่องสกัดสารตัวอย่างด้วยตัวดูดซับของแข็ง



Extrapid Manual
Cartridge-Disk SPE



Sepaths-UP
Automated SPE



SepLine-S
Automated SPE

FREEZE DRYER

HyperCool



Basic Manifold



Basic Chamber



Acrylic Chamber
with Rubber Valve



Stoppering Chamber

- Chamber Volume 4, 25 L
- Ultimate Chamber Temp -55, -80, -110 °C

- Ice Capacity 3, 8 kg
- Function : Keylock, Defrost (hot gas), Vacuum, Time

NITROGEN EVAPORATOR

เครื่องระเหยสารละลายด้วยการใช้แก๊สไนโตรเจน



Display : LED



Pressure Regulator Range : 0 - 30 PSI



Temperature : Ambient - 90 °C



Parameters : Temperature, Pressure, Time

rapid^{plus}
EC SYSTEM



- Samples : 4 or 6
- Volume Range : 50, 100, 200 ml
- No. of Manifolds: 3
- No. of Nozzle in each Manifolds: 2

rapid50
EC SYSTEM



- Samples : 50
- Volume Range : 1 - 30 ml
- No. of Manifolds: 5
- No. of Nozzle in each Manifolds: 10

rapid100+
EC SYSTEM



- Samples : 120 and 144
- Volume Range : 3, 4 ml
- No. of Manifolds: 6
- No. of Nozzle in each Manifolds: 20, and 24

U.S.A.
Biotage



TURBOVAP 96 Dual



**Automated Single and
Dual-Channel Well Plate**

- Intelligent Evaporation
- Support well plates 96, 48, or 24 Positions
- Top and Bottom Heating
- Speed up evaporation and save gas,
- Smart Door Technology

TURBOVAP LV



**Automated Solvent
Evaporation System**

- Flexible Rack System
- Gas Flow Gradients
- Removable Adjustable Nozzles
- Create & Save Methods on 7" Touch Screen
- Acid Resistant PTFE Version

FERMENTOR / MINIIFOR

เครื่องปฏิบัติการชีวภาพแบบตั้งโต๊ะ สำหรับงาน
ด้านการหมักทางชีวภาพ และการเพาะเลี้ยงเซลล์, จุลินทรีย์



Vessel Volume
35 ml to 6 L



**Heated from
underneath
by Infrared
Radiation**



LAMBDA
LABORATORY INSTRUMENTS
Czech Republic

MINIIFOR

ONE INSTRUMENT for

- High density microbial fermentation (Bacteria, Yeast, Fungi)
- Batch / Fed-batch / Perfusion / Continuous cultures
- Aerobic / Anaerobic fermentation
- Protein / Vaccine / Monoclonal antibody production
- Animal / Mammalian / Insect cell culture
- Controlled Stem cell culture
- Tissue Engineering



0.3 L



0.4 L



1 L



3 L



7 L

FerMac 200 Series

Offers a real alternative to our competitors with a truly modular system approach. Each module, although totally independent, can stack together to create an extremely neat, combined unit with inter-linking power cables.

FerMac 280 Foam /Level controller

FerMac 251 Oxygen controller

FerMac 260 pH controller

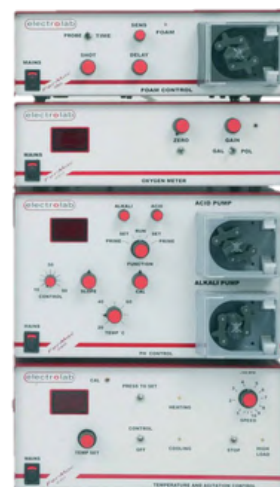
FerMac 231 Temperature and
agitation control module



Peek/glass vessel

All such parts are made either from glass or PEEK™ (Polyetherether Ketone)

electrolab
BIOTECH
U.K.



HIGH TEMPERATURE FURNACE & OVEN

เตาเผาและตู้อบอุณหภูมิสูง



**Solid Tube
Furnaces**
1,200 °C



**Split Tube
Furnaces**
1,100 - 1,200 °C

**High Temperature
Box Furnaces**
1,200 - 1,800 °C

Bench Top and Floor
Stand Box Furnaces



*Laboratory & Production Furnaces, Cast heaters, Vacuum formed ceramic fiber heaters,
Diffusion heaters, Recirculating ovens, Heater coils, Air heaters, Ovens, Kilns*

SNOL Lithuania

LABORATORY LINE

FURNACE

High temperature
Up to 1,600 °C
Fiber-Insulated or
ceramic chamber



OVEN

Up to 350 °C
Single & Multi
Chamber ovens



INDUSTRIAL LINE

Industrial Line include with removable heart
or walk-in type chamber model

FURNACE

High temperature
Up to 1,300 °C



OVEN

Up to 750 °C



 Customized for your hot innovations

MACHINE & EQUIPMENT FOR GLASS & SILICON

**ARNOLD
GRUPPE**
Germany

เครื่องมือและอุปกรณ์สำหรับงานเป่า, ตัด, กลึง, ขัด, เจาะ และขึ้นรูปแก้ว

TOOL & EQUIPMENT

BENCH BURNER

Suitable for borosilicate glass and quartz glass



REAMER

for hot working with glass.



ROLLER

for glassblowers.



GRAPHITE TOOL

Suitable for borosilicate glass and quartz glass



HOLDER

Tool for your fixture



OTHER

Pliers, tweezers, rods, glass cutting knives and more

MACHINE

GLASS BELT GRINDING MACHINE

For wet and dry grinding operations, for surface grinding and edging as well as for trimming of flat glasses and hollow glass ware etc.



CUTTING MACHINE

Suitable for soda glass, lead glass & borosilicate glass



GLASSWORKING LATHE

1060 MINI: Universal - Glassworking lathes Series "MINI"



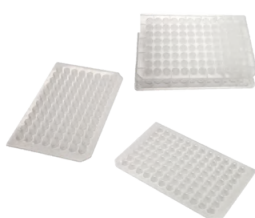
HIGH QUALITY GAS CHROMATOGRAPHY SUPPLIES

crs

U.S.A. Part of the **TRAJAN** Family

PRODUCTS

- GC Column
- Septa - GC
- Ferrules & Fittings
- Gas Purifiers/ Filters / Traps
- Crimping Tools
- Well Plates & Sealing Mats



PORTABLE GAS ANALYZER

เครื่องวิเคราะห์แก๊ส และ เครื่องวัดคุณภาพอากาศ

Combustion Analyzers

Si-CA 030 / 130 / 230 *Flue gas analyzers*



-  Auto pump cut-off for high CO levels (adjustable)
-  Up to 6 Gas Sensors (O₂, CO, NO, Low NO, NO₂, Low NO₂, SO₂, Low SO₂, H₂S, and CxHy)
-  Mobile phone app for real-time remote display & control
-  probes available 180, 300, 750 mm and 1, 1.5 m

Si-CA 8500 *Portable Industrial Combustion Flue Gas & Emissions Analyzer*



-  Up to 9 Gas Sensors (O₂, CO, NO, NO₂, SO₂, CO₂, CxHy, VOCs and H₂S)
-  CO Dilution Auto-Range for Measurements up to 20,000 ppm
-  Software for Real-Time Data Logging, Graphing and Reporting with unlimited memory

Air quality measurement

CO 50 *handheld carbon monoxide (CO) meter*



-  0 to 500 ppm
-  Temp : -20 to 80 °C
-  2-line display
-  IP54 Protection

CO 110 *handheld carbon monoxide (CO) meter*



-  0 to 500 ppm
-  Temp : -20 to 80 °C
-  4-line display
-  IP54 Protection

AQ 110 *measures the level of carbon dioxide (CO₂) present in ambient air.*



-  0 to 5000 ppm
-  Temp : -20 to 80 °C
-  Hold-min-max functions

Si-AQ Expert



-  Up to 7 Gases in Total: TVOCs, CO₂, CO, Formaldehyde, NO₂, NO, O₂, O₃ (Ozone), SO₂, H₂S
-  Pt100 : -40 to 125 °C
Type K : 0 - 1,100 °C
-  Real Time PC Software & USB Cable

AUTOMOTIVE INDUSTRY

DYNAMOMETER เครื่องทดสอบประสิทธิภาพยานยนต์

AXLE-HUB DYNO

- Quick mounts & Automatic Camber Adjustment is standard
- Compact load-capable portable dynamometer
- Eddy Current Absorbers with Air-Cooled
- Hydraulic Absorbers with Water-Cooled
- 2WD & AWD Hub Dyno



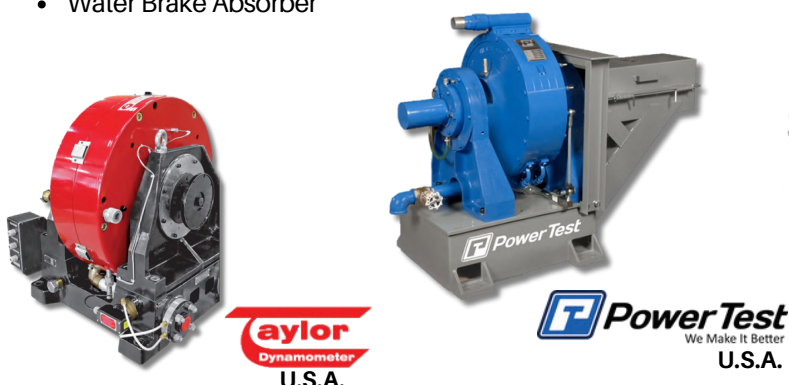
CHASSIS DYNO

- Versatile Chassis Dynamometer
- Comes Standard with Road Simulation Technology (RST)
- Can be upgraded to AWD and / or AC Motoring
- Eddy Current Absorbers with Air-Cooled
- 2WD & AWD Chassis Dyno



ENGINE DYNO

- Automotive & Marine Engine Dyno
- Testing Cars Engine of Both Gasoline & Diesel Engines
- 1 to 10,000+ Hp World's largest dyno line
- Eddy Current Absorber with Air-Cooled
- Water Brake Absorber



VACUUM TECHNOLOGY

VACUUM PUMP & THIN FILM COATING SYSTEM

ปั๊มสุญญากาศ และ ระบบเคลือบฟิล์มบางในสุญญากาศ

SINGLE - STAGE ROTARY VACUUM PUMPS

SOGEVAC

- Pumping Speed: 10 to 840 m³/h
- Ultimate Pressure: $\leq 5 \times 10^{-2}$ mbar
- ATEX directive 2014/34/EU certification
- Quietest pumps on the market
with oil loss of less than 1 ppm



DUAL - STAGE ROTARY VACUUM PUMPS

TRIVAC

- Pumping Speed: 2.5 to 79 m³/h
- Ultimate Pressure: $\leq 5 \times 10^{-3}$ mbar
- ATEX directive 2014/34/EU certification
- For medium vacuum applications



DRY - COMPRESSING VACUUM PUMPS

ECODRY Plus

25 / 35 / 40 / 65 m³/h

VARODRY

65 / 100 / 160 / 200 m³/h

LEYVAC

80 to 145 m³/h

DRYVAC

200 to 1,600 m³/h

CLAWVAC

65 to 1,000 m³/h

SCROLLVAC Plus

3 / 7 / 10 / 15 / 18 m³/h

SCREWLINE

630 m³/h

NOVADRY

65 to 200 m³/h



MEASURING INSTRUMENTS

VACUUM GAUGES

- Measurement range: 10^{-12} to 2,000 mbar



SPARE PARTS

VACUUM OIL

REPAIR KIT

FLANGES & FITTINGS

VALVES



ROOTS BLOWERS

RUVAC WA(U) / WS(U)

- Pumping Speed : 250 to 4,000 m³/h
- ATEX directive 2014 / 34 / EU certification

RUVAC WH(U)

- Pumping Speed : 720 to 9,800 m³/h
- ATEX directive 2014 / 34 / EU certification and partial certification for ATEX Cat 2i



OIL DIFFUSION PUMPS

DIFFVAC DP

- Pumping Speed : 20,000 l/s
- Operating range :
 < 10⁻³ to 10⁻⁷ mbar
- Stable high vacuum



CRYOGENIC SYSTEMS

COOLVAC Cryo pump

- Pumping Speed : 60,000 l/s

COOLPAK

- Helium compressor

COOLPOWER

- Refrigerator



TURBOMOLECULAR PUMPS

Ultra-high vacuum generation

TURBOVAC i/iX

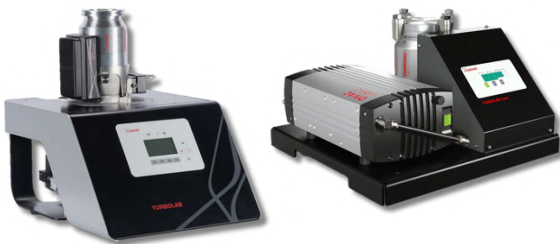
- Pumping Speed : up to 1,450 l/s
- TURBO.CONTROL i display unit
- Hybrid bearing technology

TURBOVAC MAGiNTEGRA

- Pumping Speed : up to 2,200 l/s
- Magnetically levitated

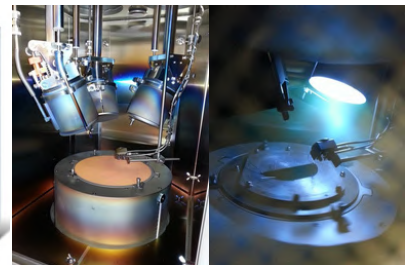


SYSTEMS + SOLUTIONS



TURBOLAB / TURBOLAB CORE

- High vacuum pump systems



UNIVEX

- Coating and thin film deposition applications

LEAK DETECTORS

PHOENIX 4

- Helium leak detector
- Optional sniffer operations

PHOENIX MOBILIS ULTRA

- Handheld multiple gas leak detectors



EQUIPMENT FOR RESEARCH, ANALYSIS, PROCESS & QUALITY CONTROL

**Applied
Separations**

**ARNOLD
GRUPPE**
— SINCE 1950 —

Better

Biotage

**BROOKFIELD
AMETEK**

CARVER

CDS
Analytical, Inc.

**CRESCENT
scientific**
laboratory instruments

crs

DYNOCOM INC.
AUTOMOTIVE SOFTWARE & HARDWARE DATA SYSTEMS

electrolab
BIOTECH

LAMBDA
LABORATORY INSTRUMENTS

Leybold

LabTech

OPERON
∞ INFINITE POTENTIAL

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SCIENTIFIC INC.
Solution Driven.

Power Test
We Make It Better

**PRO
Scientific**

RESINTECH INC.
INNOVATIONS IN ION EXCHANGE

SNOL

sauermann

LABTRON

TELEDYNE TEKMAR
A Teledyne Technologies Company

TOPTION

Thermcraft

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