



## LAB SCALE TEST SYSTEMS



### OVERVIEW PERVATECH LAB SCALE UNITS

#### **PTU – 044 PERVAPORATION SYSTEM (PV)**

COMPLETE LOW VOLUME PERVAPORATION SYSTEM (PV). THE UNIT IS DEVELOPED TO CONDUCT LABORATORY SCALE PERVAPORATION PROCESS EXPERIMENTS WITH THE PERVATECH MEMBRANES. THE SYSTEM SATISFIES THE PED 97/23 EC DIRECTIVE AND IS AVAILABLE IN DIFFERENT EXECUTIONS (EX, NON-EX) AND WITH SEVERAL OPTIONS.

#### **PTU – 054 PERVAPORATION SYSTEM (PV)**

COMPLETE PERVAPORATION SYSTEM (PV). THE UNIT IS DEVELOPED TO CONDUCT LABORATORY SCALE PERVAPORATION PROCESS EXPERIMENTS WITH THE PERVATECH MEMBRANES. THE SYSTEM SATISFIES THE PED 97/23 EC DIRECTIVE AND IS AVAILABLE IN DIFFERENT EXECUTIONS (EX, NON-EX) AND WITH SEVERAL OPTIONS.

#### **VTU – 054 VAPOUR PERMEATION SYSTEM (VP)**

COMPLETE VAPOUR PERMEATION SYSTEM (VP). THE UNIT IS DEVELOPED TO CONDUCT LABORATORY SCALE VAPOUR PERMEATIONS EXPERIMENTS WITH THE PERVATECH MEMBRANES. THE SYSTEM SATISFIES THE PED 97/23 EC DIRECTIVE AND IS AVAILABLE IN DIFFERENT EXECUTIONS (EX, NON-EX) AND WITH SEVERAL OPTIONS.

#### **CTU – 054 COMBINED PV/VP SYSTEM**

COMBINED PV/VP SYSTEM. THE UNIT OFFERS THE POSSIBILITY TO CONDUCT LABORATORY SCALE VAPOUR PERMEATIONS OR PERVAPORATION EXPERIMENTS WITH THE PERVATECH MEMBRANES. THE SYSTEM SATISFIES THE PED 97/23 EC DIRECTIVE AND IS AVAILABLE IN DIFFERENT EXECUTIONS (EX, NON-EX) AND WITH SEVERAL OPTIONS.

#### **PVM – 082 PERVAP TEACHER**

SMALL DEMONSTRATION UNIT FOR TEACHING PURPOSES. WITH THIS UNIT STUDENTS CAN PERFORM STRAIGHTFORWARD DEHYDRATION EXPERIMENTS TO DETERMINE HOW PROCESS CONDITIONS INFLUENCE MEMBRANE PERFORMANCE.

## APPLICATIONS

- BREAKING OF AZEOTROPES
- DEHYDRATION OF SOLVENTS
- CONCENTRATION OF ORGANICS
- OPTIMISING REACTIONS
- VOC REMOVAL
- PURIFICATION

Pervatech is considered a leading supplier of cutting edge membranes, membrane modules and separation systems for pervaporation and vapour permeation applications.

Our highly motivated team works closely together with customers all over the world to find solutions for demanding separation processes where our technology has substantial advantages over existing solutions.

We target specific applications in the chemical, pharmaceutical and food industry.

## SOLUTIONS FOR DEMANDING SEPARATION PROCESSES.

The company's core activities are the development, production and marketing & sales of ceramic and polymeric membranes for both hydrophilic and organophilic separation processes.

Our membranes are stable in water at high temperatures, in (a)protic solvents and in the presence of acids and can be used both in stand-alone solutions and in add-on hybrid systems.

Scientific co-operation with leading Universities and Institutions, both nationally and abroad secures today's and tomorrow's ceramic membranes with superior characteristics.

**Please contact us for more details**

