

VACUU-LAN® VACUUM NETWORKS FOR LABORATORIES



LOCAL AREA VACUUM NETWORK VACUU·LAN® - VACUUM FOR MANY USERS

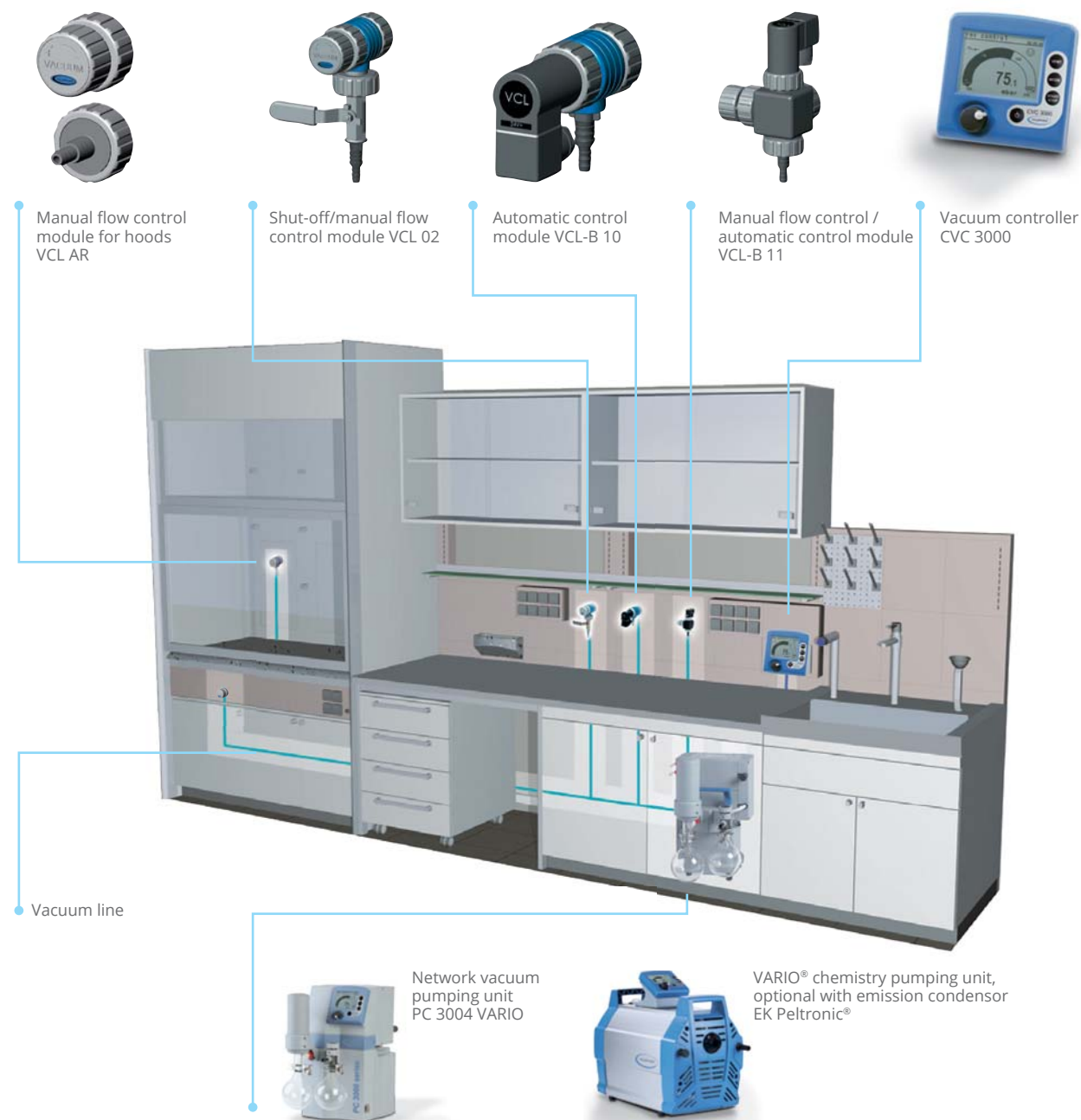
- ✚ For new and existing laboratories
- ✚ One laboratory, one vacuum pump, several applications and workstations
- ✚ Individual configuration with chemical resistant PTFE tubing
- ✚ Space-saving installation with small investment
- ✚ Demand controlled energy saving vacuum
- ✚ Independent work without mutual interference - due to integrated non-return valves
- ✚ Flexibility - easy upgrade and quick replacement of components
- ✚ Environmentally friendly - solvent recovery near 100 %
- ✚ Higher safety for the laboratory - additional components (e.g., emission condenser Peltronic®, flask with liquid level sensor, solvent drain)
- ✚ Minimal energy consumption and maximum maintenance intervals by pump on demand control with VARIO® technology



Vacuum network installation at a laboratory of a university, equipped with emission condenser Peltronic®, without additional cooling water connections inside the floor cupboard.

Ask for VACUU·LAN® information material

VACUU·LAN® VACUUM NETWORKS FOR LABORATORIES

LABORATORY WORKPLACE
VACUU·LAN® FITS ALL

Vacuum ports are connected with a network vacuum pump via easy-to-install PTFE tubes. The vacuum pump is typically integrated into a chemistry vacuum pumping unit with separator, emission condenser and a vacuum controller for vacuum network control.

MODULAR CONCEPT VACUU-LAN® IN FOUR STEPS

Step 1 - Pump selection

Examples of use	Vacuum ports*	Vacuum pump
70 mbar - Vacuum filtration, Liquid aspiration	6-8 10-12	ME 4C NT +2AK PC 3016 NT VARIO (with pump on demand control)
7 mbar - Rotary evaporation, Concentration. For many common solvents.	4-6 6-8	MZ 2C NT +AK+EK PC 3002 VARIO (with pump on demand control)
2 mbar - Drying of small quantities, Rotary evaporation. For high-boiling solvents.	6-8 6-10	MD 4C NT +AK+EK PC 3004 VARIO (with pump on demand control)

*In case of low simultaneous usage larger networks with more connections per pump are possible. Talk to our experts!

Step 2 - Choosing the VACUU-LAN® (VCL) mounting bases

Mounting bases are the connecting parts between pipeline network and vacuum port. On the mounting base the complete VCL module will be placed later. The mounting bases are used for the assembly of the VCL module on the wall or integrated in the furniture.

Mounting base A1

- ✦ for the subsequent refurbishment of laboratories
- ✦ the network tubing will be laid visibly on the wall or on the furniture



Mounting base A5

- ✦ for integrated installation
- ✦ the vacuum lines run hidden, the connection elements are mounted on the front side



VACUU·LAN® VACUUM NETWORKS FOR LABORATORIES

Step 3 - Select VACUU·LAN® (VCL) modules and the operating functions

Select the required operation functions for each work place

Manual control



✚ Manual flow control module VCL 01

with flow control diaphragm valve to open and close the vacuum port, and to fine-tune the pumping speed.



✚ Shut-off / manual flow control module VCL 02

with flow control diaphragm to fine-tune the pumping speed, combined with a ball valve for quick opening or closing of the vacuum line - the fine adjustment is retained when the ball valve is closed and reopened.



✚ Shut-off module VCL K

with ball valve for quick opening or closing of the vacuum line.



✚ Manual flow control module for hoods VCL AR

consisting of a flow control diaphragm valve unit and a separate vacuum port for installation in laboratory exhaust hoods.



✚ Control and measuring module VCL RM, VCL RMS

similar to module VCL 01, but with additional mechanical bourdon vacuum gauge for quick reading, RMS for lateral wall mounting.

Electromagnetic control



✚ Automatic control module VCL-B 10

electromagnetic (solenoid) valve for automatic vacuum control in conjunction with vacuum controller CVC 3000. All components with convenient VACUU·BUS® control connections. Valve seal made of fluoroelastomer with excellent chemical resistance for continuous use.



✚ Manual flow control / automatic control VCL-B 11

with flow control diaphragm to fine-tune the pumping speed and electromagnetic valve for automatic vacuum control. With advantageous bus control VACUU·BUS®.



✚ Controller module

CVC 3000E with in-line valve for integrated installation + vacuum connection VCL A/A5.

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Step 4 - PTFE network and connection elements

For detailed planning or design of the connection elements and PTFE tube as well as control options, contact our product specialists. Ask us!



Laboratory with space-saving vacuum supply in the cabinet. Convenient pump control with integrated CVC 3000E.



VACUU-LAN® - network with separate controller CVC 3000E for vacuum network control. Space-saving integration in the laboratory furniture.

VCL - MOUNTING BASES

Supplied with VCL modules (A1 - for retrofitting; A5 - for built-in installation)

VCL - MODULES**ORDERING INFORMATION - MOUNTING BASE A1 MANUALLY**

Manual flow control module	VCL 01	677106
Shut off / manual flow control module	VCL 02	677107
Control and measuring module		
VCL RMS	2612120+677131	
Control and measuring module		
VCL RM	2612991+677131	

ORDERING INFORMATION - MOUNTING BASE A1 ELECTROMAGNETIC

Automatic control module	VCL-B 10	677208
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ORDERING INFORMATION PTFE PIPE AND CONNECTION ELEMENTS

PTFE tubing DN 10/8 mm	638644
VCL connector angle	638434
VCL connector T-piece	638435

ORDERING INFORMATION - MOUNTING BASE A5 MANUALLY

Manual flow control module	VCL 01	*677190
Shut off / manual flow control module	VCL 02	*677191
Manual control module for hoods	VCL AR	*677195
Control and measuring module		
VCL RMS	*2612120+677135	
Control and measuring module		
VCL RM	*2612991+677135	

ORDERING INFORMATION - MOUNTING BASE A5 ELECTROMAGNETIC

Automatic control module	VCL-B 10	*677292
Automatic / manual flow control module		
VCL-B 11		*677293

ORDERING INFORMATION - CONTROLLER MODULE

CVC 3000E	683180
Vacuum connection VCL A A5/C9	*677167

* Additional T-piece (638435) or angle connector (638434) required