



Technology for Vacuum Systems

**NEW  
TECHNOLOGY**

*Powerful, cost-effective, non-polluting:*

# CHEMISTRY VACUUM SYSTEMS



CHEMISTRY VACUUM SYSTEMS PC 500 NT / PC 600 NT

# NEW CHEMISTRY VACUUM SYSTEMS PC 500 NT SERIES

## ... FOR LOW-BOILING POINT SOLVENTS



**Classic:**  
*Chemistry Vacuum System PC 510 NT*  
*1 x electronically controlled*



**Convenient:**  
*Chemistry Vacuum System PC 511 NT*  
*1 x electronically controlled*  
*1 x manually controlled*

**Efficient:**  
*Chemistry Vacuum System PC 520 NT*  
*– the “classic” in synchro mode*  
*2 x electronically controlled*

- Compact unit for simultaneous operation of two independent vacuum applications
- Two vacuum controllers for effective vacuum control and management
- Two solenoid-operated inline valves (new VACUU-BUS control)
- Two systems in one
- Non-return valves to prevent interference between systems
- Shared solvent recovery system



## THE POWERFUL HEART OF THE PC 500 NT SERIES

### **Chemistry Diaphragm Pump**

#### **MZ 2C NT**

**Ultimate vacuum: 7 mbar**

**Max. pumping speed 50 Hz: 2.0 m<sup>3</sup>/h**

**Max. pumping speed 60 Hz: 2.3 m<sup>3</sup>/h**

- High performance even at low vacuum levels
- Uncompromising “chemistry” design incorporating fluoroplastics of optimum chemical resistance
- Long diaphragm life through PTFE sandwich design and stress-free fixation of diaphragms
- Easy servicing due to separate replacement of diaphragms and valves
- Exceptionally quiet and low vibration
- Superior vapour tolerance due to special design of integrated connections
- Gas ballast valve as standard



## THE POWERFUL HEART OF THE PC 600 NT SERIES

### **Chemistry Diaphragm Pump**

#### **MD 4C NT**

**Ultimate vacuum: 1.5 mbar**

**Max. pumping speed 50 Hz: 3.4 m<sup>3</sup>/h**

**Max. pumping speed 60 Hz: 3.8 m<sup>3</sup>/h**

- High performance even at low vacuum levels
- Uncompromising “chemistry” design incorporating fluoroplastics of optimum chemical resistance
- Long diaphragm life through PTFE sandwich design and stress-free fixation of diaphragms
- Easy servicing due to separate replacement of diaphragms and valves
- Exceptionally quiet, extremely low vibration
- Superior vapour tolerance due to special design of integrated connections
- Gas ballast valve as standard



# NEW CHEMISTRY VACUUM SYSTEMS PC 600 NT SERIES

## ... FOR HIGH-BOILING POINT SOLVENTS



**Classic:**  
**Chemistry Vacuum System PC 610 NT**  
*1 x electronically controlled*



**Convenient:**  
**Chemistry Vacuum System PC 611 NT**  
*1 x electronically controlled  
1 x manually controlled*

**Efficient:**  
**Chemistry Vacuum System PC 620 NT**  
*– the “classic” in synchro mode*  
*2 x electronically controlled*

- Compact unit for simultaneous operation of two independent vacuum applications
- Two vacuum controllers for effective vacuum control and management
- Two solenoid-operated inline valves (new VACUU·BUS control)
- Two systems in one
- Non-return valves to prevent interference between systems
- Shared solvent recovery system



## **THE ALL-IN-ONE SOLUTION:**

**MAXIMUM TECHNOLOGY, ECONOMIC EFFICIENCY  
AND ENVIRONMENTAL FRIENDLINESS**

### *Electronic vacuum control for gentle evaporation and prevention of boiling-over*

- New “NT” series chemical diaphragm pumps with high vapour tolerance
- Vacuum Controller CVC 3000 for automatic vacuum control and management
- Simple operation through intuitive control and clear text menus
- Solvent recovery next to 100% through high-performance condenser
- Modular design for easy, cost-effective adaptation to additional applications, e.g. rotary evaporators
- Connection of extra components, e.g. external air admittance valves, external gauge heads

CHEMISTRY VACUUM SYSTEM	PC 510 NT	PC 511 NT	PC 520 NT
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**TECHNICAL DATA**

Pumping speed 50 Hz	m <sup>3</sup> /h	2.0	2.0	2.0
Pumping speed 60 Hz	m <sup>3</sup> /h	2.3	2.3	2.3
Ultimate vacuum (total)	mbar	7	7	7
Ultimate vacuum with gas ballast	mbar	12	12	12
Inlet connection (IN)	(hose nozzle)	DN 10	2 x DN 10/6	2 x DN 10/6
Outlet connection (EX)	(hose nozzle)	DN 10	DN 10	DN 10
Cooling water connection	(hose nozzle)	2 x DN 6	2 x DN 6	2 x DN 6
Dimensions (L x W x H)	mm	399 x 305 x 520	399 x 335 x 520	399 x 335 x 520
Weight	kg	17.7	18	18.7

**ORDERING INFORMATION**

230 V ~ 50 Hz	plug CEE	73 31 00	73 32 00	73 33 00
230 V ~ 50 Hz	plug CH	73 31 01	73 32 01	73 33 01
230 V ~ 50 Hz	plug UK	73 31 02	73 32 02	73 33 02
100-120 V ~ 50-60 Hz	plug US	73 31 03	73 32 03	73 33 03

CHEMISTRY VACUUM SYSTEM	PC 610 NT	PC 611 NT	PC 620 NT
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**TECHNICAL DATA**

Pumping speed 50 Hz	m <sup>3</sup> /h	3.4	3.4	3.4
Pumping speed 60 Hz	m <sup>3</sup> /h	3.8	3.8	3.8
Ultimate vacuum (total)	mbar	1.5	1.5	1.5
Ultimate vacuum with gas ballast	mbar	3	3	3
Inlet connection (IN)	(hose nozzle)	DN 10	2 x DN 10/6	2 x DN 10/6
Outlet connection (EX)	(hose nozzle)	DN 10	DN 10	DN 10
Cooling water connection	(hose nozzle)	2 x DN 6	2 x DN 6	2 x DN 6
Dimensions (L x W x H)	mm	399 x 305 x 520	399 x 335 x 520	399 x 335 x 520
Weight	kg	21	21.2	22

**ORDERING INFORMATION**

230 V ~ 50 Hz	plug CEE	73 71 00	73 72 00	73 73 00
230 V ~ 50 Hz	plug CH	73 71 01	73 72 01	73 73 01
230 V ~ 50 Hz	plug UK	73 71 02	on request*	on request*
100-120 V ~ 50-60 Hz	plug US	73 71 03	on request*	on request*

\*) Available on request with country-specific mains cable.


**Vacuum Controller CVC 3000**

- On-demand control of process vacuum, cooling water and venting
- Ten memory presets, fully programmable, editable and storable
- Self-configuring through component recognition

**UPGRADE FROM PC 511/611 TO PC 520/620**
**ORDERING INFORMATION**

Vacuum Controller CVC 3000	68 31 60
Inline valve VV-B 6C	67 42 91

**ACCESSORIES**
**ORDERING INFORMATION**

External gauge head VSK 3000	63 66 57
Cooling water valve VKW-B	67 42 20
External air admittance valve VB M-B	67 42 17
Extension cable VACUU-BUS, 2 m	61 25 52
Y-Adapter VACUU-BUS	63 66 56
Level detection sensor for round bottom flask 500 ml	69 99 08


**Technology for Vacuum Systems**

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**THE COMPANY:**

With 150 employees and over 40 years of experience, VACUUBRAND manufactures the most comprehensive range of laboratory and instrumentation vacuum pumps, gauges and controllers for rough and fine vacuum.

The product range comprises rotary-vane pumps, oil-free diaphragm pumps, complete pumping units, flexible vacuum systems and solutions for local area networks. The range is completed by a wide choice of fittings and accessories as well as vacuum gauges and controllers for rough and fine vacuum.

Our technical literature is only intended to inform our customers. The validity of general empirical values and results obtained under test conditions for specific applications depends upon a number of factors beyond our control. It is, therefore, strictly the users' responsibility to verify carefully the validity or suitability to their specific requirements. No claims arising from the information provided in this catalogue will consequently be entertained. Technical data are subject to change without notice.

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