



Faster, easier & more efficient The graphical user interface PVGui

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Content of this presentation

- ▶ User interface
- ▶ Data analysis
- ▶ Rotary evaporators using PVGui

Graphical user interface PVGui

PVGui V7.6

Set- and actual values

Variables	Actual values	Set values
Dosed steps (d)	0	0
Cycles (b)	1	1
Max. vapor temperature (t)	20 °C	60 °C
Vacuum (v)	966 hPa	200 hPa
Minimal vacuum (Auto) (x)		199 hPa
Product quantity (p)	0 %	100 %
End quantity (e)		0 %
Heating bath temperature (T)	19 °C	0 °C
Rotating flask speed (r)	24 rpm	25 rpm

Graphic

Menu

Settings

Show help

Terminate PVGui

Errors

Important buttons

Start Powervap

Pump out distillate

Product dosing 5 sec.

Manual VC activated

Additional buttons

Activate reflux

End procedure

Aerating 1 sec.

Activate automatic VC

Console

```

2013-05-04, 19:23:33 1. Welcome
2013-05-04, 19:23:36 2. Emptying of product tube
2013-05-04, 19:23:39 3. Filling of product tube
2013-05-04, 19:23:44 4. Emptying of rotating flask
2013-05-04, 19:23:46 5. Removing of distillate
2013-05-04, 19:23:52 Distillate pumped out or no Distillate removal.
2013-05-04, 19:23:53 6. Pre-heating of bath
2013-05-04, 19:24:30 Background test of the vacuum sensor S1.
2013-05-04, 19:24:35 Background test of the inclinometer S5.
2013-05-04, 19:24:44 Powervap successfully configured.
2013-05-04, 19:24:44 7. Successfully completed
2013-05-04, 19:24:51 Main operating window is open now.
          
```

Automatic end procedure after:

0 Days 0 Hours 0 Minutes

Set automatic end procedure

Running time:

000 Days, 00 Hours, 01 Minute, 32 Seconds.

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Storing values

Power vap GUI

Set- and actual values

Variables	Actual values	Set values

Graphic

PVGui V7.6

Heating bath temperature (T) = [0;80]

45

1 2 3

4 5 6

7 8 9

Del 0 OK

VC(1) VB(0)

S1 VA(5) VA(6) VA(4)

S5 VB(3) VA(0)

S6 VA(7) VA(3)

S3 S4 D1

Automatic end procedure after:

0 Days 0 Hours 0 Minutes

Set automatic end procedure

Running time:

000 Days, 00 Hours, 02 Minutes, 18 Seconds.

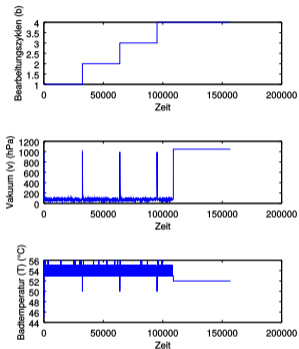
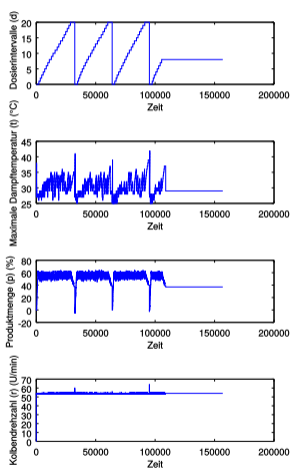
3:52 Distillate pumped out or no Distillate removal.
 3:53 6. Pre-heating of bath
 4:30 Background test of the vacuum sensor S1.
 4:35 Background test of the inclinometer S5.
 4:44 Power vap successfully configured.
 4:44 7. Successfully completed.
 4:51 Main operating window is open now.
 5:09 Set value has been changed: d = 7
 5:14 Set value has been changed: v = 25
 5:20 Set value has been changed: x = 36
 5:24 Set value has been changed: p = 40
 5:30 Set value has been changed: e = 20

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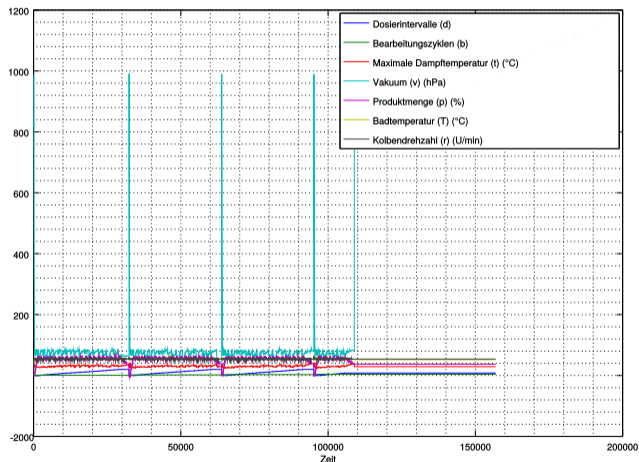
Analyzing logged actual values



Recording of variables:
Graphical and numerical
evaluation possible

⇒ Optimization of
existent processes

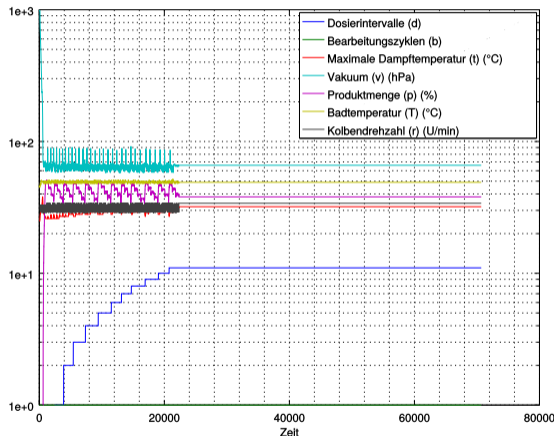
Display with Matlab, Octave, Excel etc.



Using CSV file format:

- ⇒ worldwide distributed
- ⇒ compatible with e.g. Matlab, Octave, Excel

Example of use: Procedure of distillation



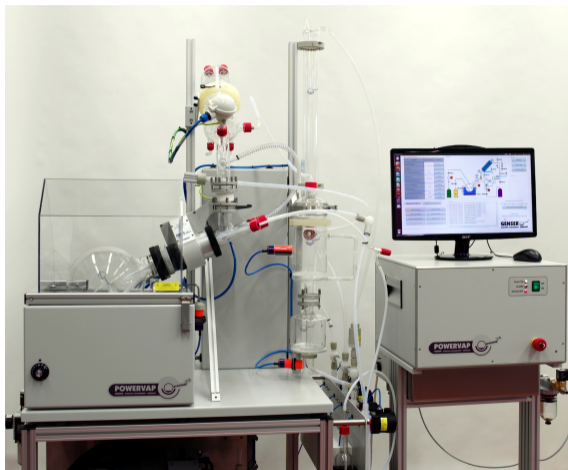
On the basis of Octave:

- ▶ free of charge, OpenSource
- ▶ cross-platform developed
- ⇒ watching measurement at a glance

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PV6-EX



PV100-EX stainless steel edition



For any questions, please contact

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