

Purolyt's Effect on the Use of VPD Tables

The VPD table correlates the room temperature with the relative humidity and marks an area where these two parameters show the optimal correlation. Both a too high and a too low VPD value will subject the plant to stress.

During the flowering phase, a VPD of 0.7 – 0.9 kPa can be set for a relative humidity > 60 %, if Purolyt has been used regularly during the entire growing cycle. This will lead to a significant yield improvement.

Conventional VPD values	VPD (kPa)
Low transpiration (propagation / early vegetative growth)	0.4 - 0.8
Healthy transpiration (late vegetative / early flowering stage)	0.8 - 1.2
High transpiration (mid to late flowering)	1.2 - 1.6
Danger zone (over / under transpiration)	<0.4 / >1.6

Exemplary table: VPD for a leaf temperature 2 °C below the air temperature

Air-temp.	Relative Humidity																								
	85,0%	82,5%	80,0%	77,5%	75,0%	72,5%	70,0%	67,5%	65,0%	62,5%	60,0%	57,5%	55,0%	52,5%	50,0%	47,5%	45,0%	42,5%	40,0%	37,5%	35,0%	32,5%	30,0%	27,5%	25,0%
20°C	0.07	0.13	0.19	0.25	0.31	0.37	0.42	0.48	0.54	0.60	0.66	0.72	0.77	0.83	0.89	0.95	1.01	1.07	1.12	1.18	1.24	1.30	1.36	1.42	1.48
21°C	0.09	0.15	0.21	0.27	0.34	0.40	0.46	0.52	0.58	0.65	0.71	0.77	0.83	0.89	0.96	1.02	1.08	1.14	1.21	1.27	1.33	1.39	1.45	1.52	1.58
22°C	0.09	0.16	0.23	0.29	0.36	0.42	0.49	0.56	0.62	0.69	0.75	0.82	0.89	0.95	1.02	1.09	1.15	1.22	1.28	1.35	1.41	1.48	1.55	1.61	1.68
23°C	0.10	0.17	0.24	0.31	0.38	0.45	0.52	0.59	0.66	0.73	0.80	0.87	0.95	1.02	1.09	1.16	1.23	1.30	1.37	1.44	1.51	1.58	1.65	1.72	1.79
24°C	0.10	0.18	0.25	0.33	0.40	0.48	0.55	0.63	0.70	0.78	0.85	0.92	1.00	1.07	1.15	1.22	1.30	1.37	1.45	1.52	1.60	1.67	1.75	1.82	1.86
25°C	0.12	0.20	0.28	0.36	0.43	0.51	0.59	0.67	0.75	0.83	0.91	0.99	1.07	1.15	1.23	1.31	1.38	1.46	1.54	1.62	1.70	1.78	1.86	1.94	2.02
26°C	0.12	0.21	0.29	0.38	0.46	0.54	0.63	0.71	0.80	0.88	0.96	1.05	1.13	1.22	1.30	1.38	1.47	1.55	1.64	1.72	1.80	1.89	1.97	2.06	2.14
27°C	0.14	0.23	0.32	0.41	0.50	0.59	0.67	0.76	0.85	0.94	1.03	1.12	1.21	1.30	1.39	1.48	1.57	1.66	1.74	1.83	1.92	2.01	2.10	2.19	2.28
28°C	0.15	0.24	0.34	0.43	0.53	0.62	0.71	0.81	0.90	1.00	1.09	1.19	1.28	1.38	1.47	1.56	1.66	1.75	1.85	1.94	2.04	2.13	2.23	2.32	2.42
29°C	0.16	0.26	0.36	0.46	0.56	0.66	0.76	0.86	0.96	1.06	1.16	1.26	1.36	1.46	1.56	1.66	1.76	1.86	1.96	2.06	2.16	2.26	2.36	2.46	2.56
30°C	0.17	0.28	0.39	0.49	0.60	0.70	0.81	0.92	1.02	1.13	1.23	1.34	1.45	1.55	1.66	1.77	1.87	1.98	2.08	2.19	2.30	2.40	2.51	2.61	2.72
31°C	0.18	0.29	0.41	0.52	0.63	0.74	0.86	0.97	1.08	1.19	1.31	1.42	1.53	1.64	1.75	1.87	1.98	2.09	2.20	2.32	2.43	2.54	2.65	2.76	2.88
32°C	0.20	0.32	0.44	0.56	0.67	0.79	0.91	1.03	1.15	1.27	1.39	1.51	1.63	1.74	1.86	1.98	2.10	2.22	2.34	2.46	2.58	2.70	2.81	2.93	3.05
33°C	0.22	0.34	0.47	0.59	0.72	0.84	0.97	1.10	1.22	1.35	1.47	1.60	1.72	1.85	1.98	2.10	2.23	2.35	2.48	2.60	2.73	2.86	2.98	3.11	3.23
34°C	0.23	0.36	0.50	0.63	0.76	0.89	1.03	1.16	1.29	1.43	1.56	1.69	1.83	1.96	2.09	2.22	2.36	2.49	2.62	2.76	2.89	3.02	3.15	3.29	3.42
35°C	0.25	0.39	0.53	0.67	0.81	0.95	1.10	1.24	1.38	1.52	1.66	1.80	1.94	2.08	2.22	2.36	2.50	2.64	2.78	2.92	3.06	3.20	3.34	3.48	3.62
36°C	0.27	0.42	0.57	0.72	0.87	1.01	1.16	1.31	1.46	1.61	1.76	1.90	2.05	2.20	2.35	2.50	2.65	2.80	2.94	3.09	3.24	3.39	3.54	3.69	3.84
37°C	0.29	0.44	0.60	0.76	0.92	1.07	1.23	1.39	1.54	1.70	1.86	2.01	2.17	2.33	2.48	2.64	2.80	2.95	3.11	3.27	3.42	3.58	3.74	3.86	4.05
38°C	0.31	0.48	0.64	0.81	0.97	1.14	1.30	1.47	1.63	1.80	1.97	2.13	2.30	2.46	2.63	2.79	2.96	3.13	3.29	3.46	3.62	3.79	3.95	4.12	4.28
39°C	0.33	0.50	0.68	0.85	1.03	1.20	1.38	1.55	1.73	1.90	2.08	2.25	2.43	2.60	2.78	2.95	3.12	3.30	3.47	3.65	3.82	4.00	4.17	4.35	4.52
40°C	0.35	0.54	0.72	0.91	1.09	1.27	1.46	1.64	1.83	2.01	2.20	2.38	2.56	2.75	2.93	3.12	3.30	3.49	3.67	3.85	4.04	4.22	4.41	4.59	4.78

Vegetative phase at 0.4-0.8 kPa: Spray a 1:25 dilution twice per week

Flowering phase at 0.7-0.9 kPa: Spray a 1:25 dilution twice per week

In order to use these values during the flowing, Purolyt must be used constantly from the setting of the plant to the harvest.

Maturation of the flowers in the last 14 days at 1.2-1.6 kPa: Spray a 1:25 dilution twice per week

Important Tips for the Application:

- It is mandatory to switch off the plants' lighting during the spraying process.
- For spraying, use deionized water, osmosis water or distilled water.

Cannabis cultivation considering the Vapour Pressure Deficit (VPD)

Learn in this fascinating interview how to unfold the full potential of your plants' genetics, provided that you master the interaction of temperature and relative humidity by means of the Vapor Pressure Deficit, VPD. Let Purolyt's Priming Effect push the limits of what is possible.



The targeted use of Purolyt allows the plants to mature at an increased humidity even in the late phases of the flowering.



At the same time, an ideal environment protects the plants against diseases and pests.



This results in healthy plants and a constant increase of the flower yields.

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