vario cool e & r – correct application

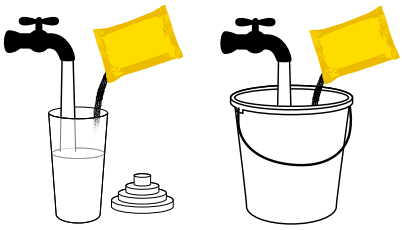
Correct application
with harvest INTERNATIONAL® duo and vario cool e & r

On the eve of harvesting

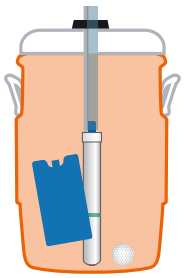
> 12 h

1. Put both **thermal packs** in the freezer along with the silage additive pouches (freeze for at least 12 hours).
2. Select the correct **dosage** (see ml/t in the tables on the following pages), read off correct **flow rate settings** (l/h) according to **harvest yield** (t/h FM)

Before starting to chop



3. Mix silage additive with cold water (in a seperate container or directly in the insulated tank):
   - Fill **vario cool tank** to approximately 1/3 with cold, clean tap water.
   - Add the desired amount of **harvest INTERNATIONAL® duo** (1 pouch treats 100 tonnes of forage).
   - Fill to the amount required by your applicator using cold, clean tap water (max. up to the mark = 19 l), mix well.



Add **mixing ball** and **a thermal pack** to the tank.

Close the tank lid and secure with **elastic loops**, **attach tank to harvester** and you're set!

If required

4. Put the **remaining silage additive pouches**, the second **thermal pack** and the **wire whisk** into the **vario cool box** and take along to the field for later use (don't forget a **canister of water**).
5. The second thermal pack in the **vario cool box** will keep the remaining pouches cool until they are needed.

ibs
growth & success
for the best agriculture – worldwide

vario cool

Application rates forage harvester (vario cool e)

30 ml/t

harvest yield* (t/min FM)	harvest yield (t/h FM)	flow metre setting (l/h)	estimated time of application** (h:min)
1.67	100	3.0	6:20
1.83	110	3.3	5:45
2.00	120	3.6	5:15
2.17	130	3.9	4:50
2.33	140	4.2	4:30
2.50	150	4.5	4:15

40 ml/t forage

harvest yield* (t/min FM)	harvest yield (t/h FM)	flow metre setting (l/h)	estimated time of application** (h:min)
1.33	80	3.2	5:55
1.50	90	3.6	5:15
1.67	100	4.0	4:45
1.83	110	4.4	4:20
2.00	120	4.8	3:55
2.17	130	5.2	3:40
2.33	140	5.6	3:25

50 ml/t forage

harvest yield* (t/min FM)	harvest yield (t/h FM)	flow metre setting (l/h)	estimated time of application** (h:min)
1.00	60	3.0	6:20
1.08	65	3.3	5:50
1.17	70	3.5	5:25
1.25	75	3.8	5:05
1.33	80	4.0	4:45
1.42	85	4.3	4:30
1.50	90	4.5	4:15
1.58	95	4.8	4:00
1.67	100	5.0	3:50
1.75	105	5.3	3:35
1.83	110	5.5	3:25
2.00	120	6.0	3:10

60 ml/t forage

harvest yield* (t/min FM)	harvest yield (t/h FM)	flow metre setting (l/h)	estimated time of application** (h:min)
0.83	50	3.0	6:20
0.92	55	3.3	5:45
1.00	60	3.6	5:15
1.08	65	3.9	4:50
1.17	70	4.2	4:30
1.25	75	4.5	4:15
1.33	80	4.8	3:55
1.42	85	5.1	3:45
1.50	90	5.4	3:30
1.58	95	5.7	3:20
1.67	100	6.0	3:10
1.75	105	6.3	3:00
1.83	110	6.6	2:50
1.92	115	6.9	2:45
2.00	120	7.2	2:40
2.08	125	7.5	2:30
2.17	130	7.8	2:25
2.25	135	8.1	2:20
2.33	140	8.4	2:15
2.42	145	8.7	2:10
2.50	150	9.0	2:05
2.58	155	9.3	2:00
2.67	160	9.6	2:00

70 ml/t forage

harvest yield* (t/min FM)	harvest yield (t/h FM)	flow metre setting (l/h)	estimated time of application** (h:min)
0.83	50	3.5	5:25
0.92	55	3.9	4:55
1.00	60	4.2	4:30
1.08	65	4.6	4:10
1.17	70	4.9	3:50
1.25	75	5.3	3:35
1.33	80	5.6	3:25
1.42	85	6.0	3:10
1.50	90	6.3	3:00
1.58	95	6.7	2:50
1.67	100	7.0	2:40
1.75	105	7.4	2:35
1.83	110	7.7	2:30
1.92	115	8.1	2:20
2.00	120	8.4	2:15
2.08	125	8.8	2:10
2.17	130	9.1	2:05
2.25	135	9.5	2:00
2.33	140	9.8	1:55
2.42	145	10.2	1:50
2.50	150	10.5	1:50
2.58	155	10.9	1:45

80 ml/t forage

harvest yield* (t/min FM)	harvest yield (t/h FM)	flow metre setting (l/h)	estimated time of application** (h:min)
0.83	50	4.0	4:45
0.92	55	4.4	4:20
1.00	60	4.8	3:55
1.08	65	5.2	3:40
1.17	70	5.6	3:25
1.25	75	6.0	3:10
1.33	80	6.4	3:00
1.42	85	6.8	2:45
1.50	90	7.2	2:40
1.58	95	7.6	2:30
1.67	100	8.0	2:20
1.75	105	8.4	2:15
1.83	110	8.8	2:10
1.92	115	9.2	2:05
2.00	120	9.6	2:00
2.08	125	10.0	1:55
2.17	130	10.4	1:50

Application rates forage wagon (vario cool e)

150 ml/t

harvest yield* (t/min FM)	harvest yield (t/h FM)	flow metre setting (l/h)	estimated time of application** (h:min)
0.33	20	3.0	6:20
0.42	25	3.8	5:05
0.50	30	4.5	4:15
0.58	35	5.3	3:35
0.67	40	6.0	3:10
0.75	45	6.8	2:50
0.83	50	7.5	2:30
1.00	60	9.0	2:05
1.17	70	10.5	1:50

180 ml/t forage

harvest yield* (t/min FM)	harvest yield (t/h FM)	flow metre setting (l/h)	estimated time of application** (h:min)
0.33	20	3.6	5:15
0.42	25	4.5	4:15
0.50	30	5.4	3:30
0.58	35	6.3	3:00
0.67	40	7.2	2:40
0.75	45	8.1	2:20
0.83	50	9.0	2:05
1.00	60	10.8	1:45

210 ml/t forage

harvest yield* (t/min FM)	harvest yield (t/h FM)	flow metre setting (l/h)	estimated time of application** (h:min)
0.33	20	4.2	4:30
0.42	25	5.3	3:35
0.50	30	6.3	3:00
0.58	35	7.4	2:35
0.67	40	8.4	2:15
0.75	45	9.5	2:00
0.83	50	10.5	1:50

** theoretical time of application / harvesting excl. road travel, time for turning etc. – may deviate from farm to farm

= use metal nozzle

= use blue nozzle

* Practical tip

The actual harvest yield must be checked during harvesting in order to adjust the application rate as well as possible.

1. Take the time of application / harvesting needed for one wagon (only take the time in which the pick-up is down and the applicator is running)
2. Weigh the wagon to measure harvest yield

Example: application / harvesting time needed for one wagon: 8 minutes
harvest yield on the wagon: 12 tonnes

Calculation: 12 tonnes : 8 minutes = 1.5 tonnes FM/minute

Application rates balers (vario cool r, nozzle bar)

150 ml/t 180 ml/t forage

harvest yield* (t/min FM)	harvest yield (t/h FM)	flow metre setting (l/h)	estimated time of application** (h:min)
0.33	20	3.0	6:20
0.42	25	3.8	5:05
0.50	30	4.5	4:15
0.58	35	5.3	3:35
0.67	40	6.0	3:10
0.75	45	6.8	2:50
0.83	50	7.5	2:30
1.00	60	9.0	2:05
1.17	70	10.5	1:50
1.33	80	12.0	1:35
1.50	90	13.5	1:25
1.67	100	15.0	1:15

harvest yield* (t/min FM)	harvest yield (t/h FM)	flow metre setting (l/h)	estimated time of application** (h:min)
0.33	20	3.6	5:15
0.42	25	4.5	4:15
0.50	30	5.4	3:30
0.58	35	6.3	3:00
0.67	40	7.2	2:40
0.75	45	8.1	2:20
0.83	50	9.0	2:05
1.00	60	10.8	1:45
1.17	70	12.6	1:30
1.33	80	14.4	1:20
1.50	90	16.2	1:10
1.67	100	18.0	1:05

210 ml/t forage

harvest yield* (t/min FM)	harvest yield (t/h FM)	flow metre setting (l/h)	estimated time of application** (h:min)
0.33	20	4.2	4:30
0.42	25	5.3	3:35
0.50	30	6.3	3:00
0.58	35	7.4	2:35
0.67	40	8.4	2:15
0.75	45	9.5	2:00
0.83	50	10.5	1:50
1.00	60	12.6	1:30
1.17	70	14.7	1:15
1.33	80	16.8	1:05
1.50	90	18.9	1:00

2 × blue nozzle (or orange): 3 - 24 l

2 × metal nozzle: 3 - 12 l

4 × metal nozzle: 7 - 24 l

** theoretical time of application / harvesting excl. road travel, time for turning etc. – may deviate from farm to farm

* Practical tip

The actual harvest yield must be checked during harvesting in order to adjust the application rate as well as possible.

1. Take the time of application / harvesting needed for one wagon (only take the time in which the pick-up is down and the applicator is running)
2. Weigh the wagon to measure harvest yield

Example: application / harvesting time needed for one wagon: 8 minutes
harvest yield on the wagon: 12 tonnes

Calculation: 12 tonnes : 8 minutes = 1.5 tonnes FM/minute

vario cool

Further application rates on request

+49 4262 - 20 74 -913
service@jbs.gmbh

Tel.: +49 4262 - 20 74 -913 ▪ Fax: +49 4262 - 300 98 19 ▪ int@jbs.gmbh ▪ www.jbs.gmbh
joachim behrens scheessel gmbh ▪ Celler Straße 60 ▪ D-27374 Visselhövede