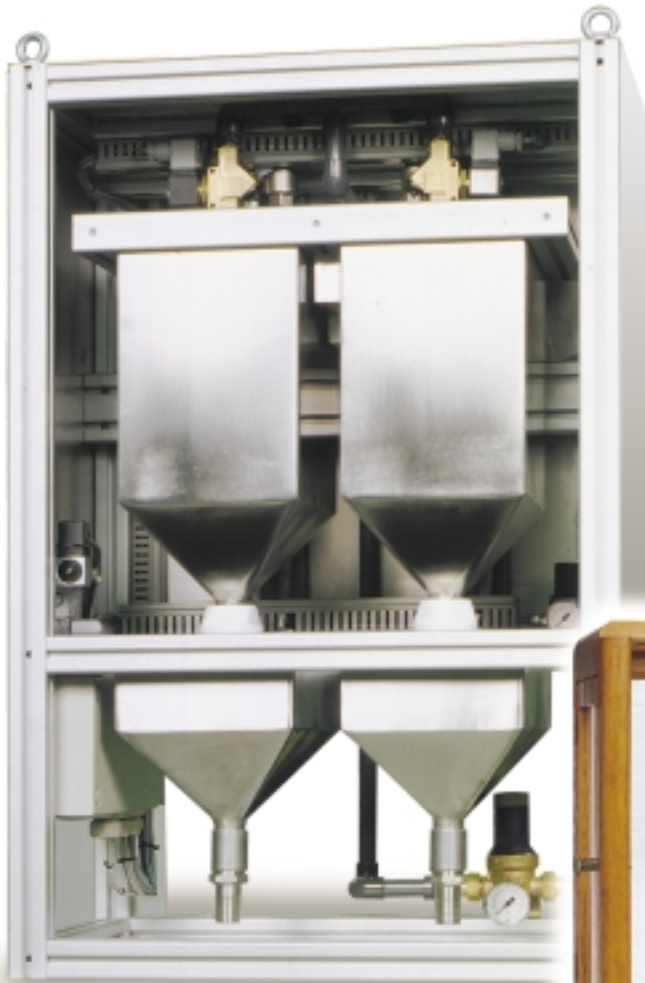


# Electronic Liquid Weigher Type ES

Stainless steel metering system for concrete admixtures



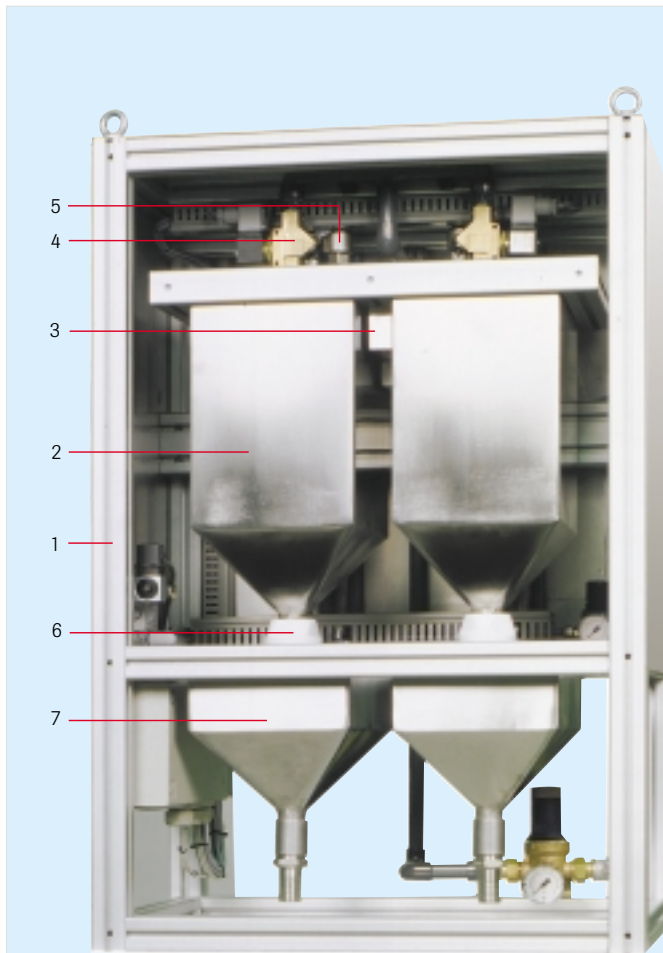
ERFAHRUNG  
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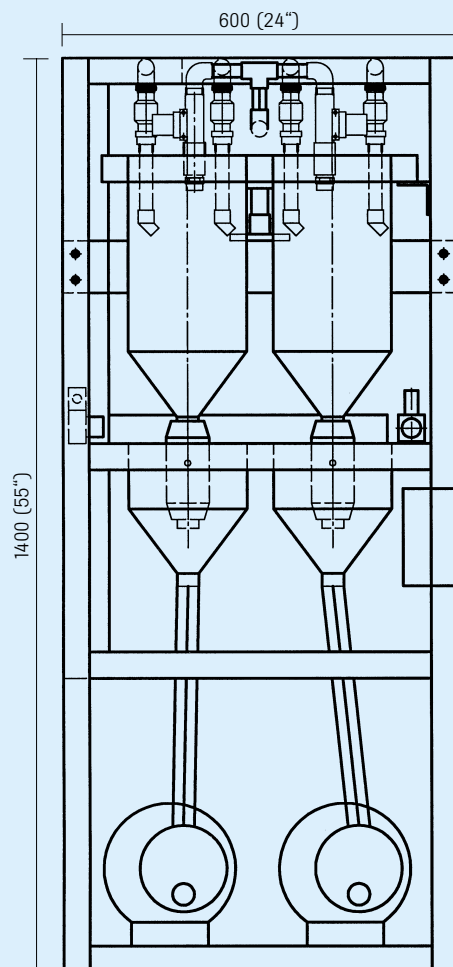
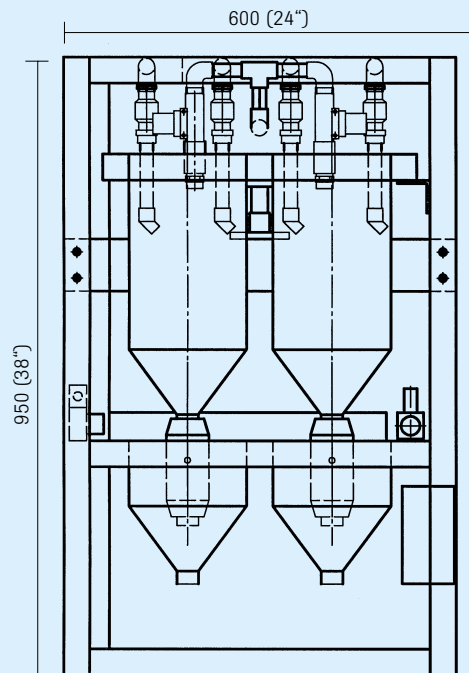
**WÜRSCHUM**



**Electronic Liquid Weighers Type ES**  
**Stainless steel version in protective cabinet**  
**Calibratable version PTB 9.461**



- 1 Protective cabinet with window
- 2 Stainless steel weighbin
- 3 Load cell
- 4 Rinsing valve with spray nozzle
- 5 2 Filling non return valves per weighbin (max. 4)
- 6 Discharge valve
- 7 Stainless steel discharge bin



## Weigher types and technical data

Type	ES 5			ES 15			ES 30			ES 5/5			ES 5/15			ES 15/15 <sup>2</sup>			ES 5/30			ES 15/30			ES 30/30			ES 5/5/5			ES 5/15/5			ES 5/15/30			ES 15/15/15			ES 15/30/15		
	5	15	30	5/5	5/15	15/15	5/30	15/30	30/30	5/5/5	5/15/5	5/15/30	15/15/15	15/30/15																												
Weighbin volume liter	5	15	30	5/5	5/15	15/15	5/30	15/30	30/30	5/5/5	5/15/5	5/15/30	15/15/15	15/30/15																												
gal	1.3	4.0	8.0	1.3/1.3	1.3/4	4/4	1.3/8	4/8	8/8	1.3/1.3/1.3	1.3/4/1.3	1.3/4/8	4/4/4	4/8/4																												
Weighing range kg	0,25-5	0,5-15	1-30	0,5-10	0,5-20	1-30	1-35	1-45	1-60	0,5-15	1-25	1-50	1-45	1-60																												
lbs	0,5-10	1-30	2-60	1-20	1-40	2-60	2-70	2-90	2-120	1-30	2-50	2-100	2-90	2-120																												
Minimum unit g	5	10	20	10	10	20	20	20	20	10	20	20	20	20																												
lbs	0.01	0.02	0.04	0.02	0.02	0.04	0.04	0.04	0.04	0.02	0.04	0.04	0.04	0.04																												
Cabinet size <sup>1</sup>	A	A	A	A	A	A	A	B	B	B	B	B	B	B																												
Load cell <sup>3</sup> kg	20	50	50	20	50	50	100	100	100	50	50	100	100	100																												
Taraweight kg	9	10	12	15	16	18	18	20	22	21	23	26	26	28																												
Total weight kg approx. without pumps	80	80	90	90	90	90	120	120	130	90	90	130	140	150																												
Total weight kg approx. with pumps	160	160	170	180	180	190	220	230	240	210	210	250	250	270																												

<sup>1</sup> Weigher without discharge pumps A = 950x600x400mm, (38"x24"x16"), B = 950x800x400mm, (38"x32"x16")  
Weigher with discharge pumps height 1400 mm (55")

<sup>2</sup> Preferred type ES 15/15

<sup>3</sup> Load cell: 3000 divisions, supply voltage 0,5-12 V, sensitivity 2 mv/V, minimum scale interval 0,009%,  
metering accuracy  $\pm 0,1\%$  relative to max. weight

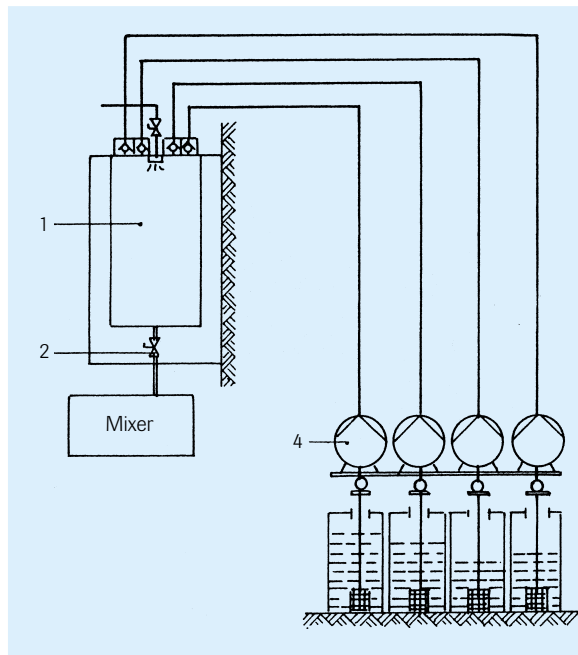
Weighbin	Filling pumps		Discharge pumps		Pressure hose
Volume Liter (gal)	Type	l/min	Type	l/min	NW
5 (1.3)	ZD 12 VBy	6-12	ZD 18 VE/SV	18	12
15 (4.0)	ZD 24 VBy	12-24	ZD 36 VE/SV	36	18
30 (8.0)	ZD 36 VBy	18-36	ZD 36 VE/SV	36	18

### Accessories

- Calibration device for automatic weigh check.
- Distribution into mixer I and II
- Limit switch for overfilling control
- Air injection into discharge line
- Intermediate cylinder to collect several batches for one truckmixer quantity
- Stainless steel spray nozzle into mixer

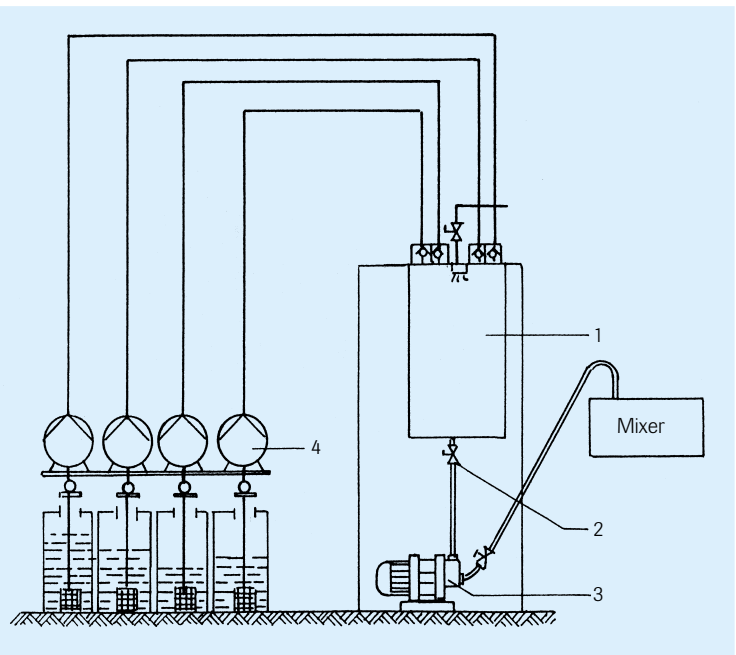
# Electronic Liquid Weigher Type ES

## Gravity discharge



- 1 Weigher in protective cabinet
- 2 Discharge valve

## Pump discharge



- 3 Discharge pump
- 4 Filling pump

### Operating description

Basic principle is to have an electronic liquid weigher with weighing cylinders made of stainless steel, resistant to aggressive chemical admixtures, enclosed in a protective cabinet with a window. Weighing cylinders can be combined as desired. Weighing is done with two load cells. Discharge in an intermediate stainless steel hopper to separate weighing cylinders from the discharge hose. Further discharge is by gravity or by discharge pumps. Each weighing cylinder is equipped with two admixture connections, with provisions for up to four connections per cylinder.

### Advantages

- Resistant to aggressive chemical admixtures.
- Many combinations of weighing cylinders sizes 5 l - 15 l - 30 l, (1.3 - 4.0 - 8.0 gal)
- Discharge into separate stainless steel hopper for higher accuracy and easier calibration.
- Each weighing cylinder may be rinsed individually.
- Weigher is not sensitive to vibrations.
- High metering accuracy of  $\pm 0.1\%$  max. weight.



Advanced Concrete Technologies, Inc.  
Pease International Tradeport  
139 Flightline Road, Unit 2 · Portsmouth, NH 03801  
Phone: (603) - 431- 5661 · Fax: (603) - 431 - 5547  
E-mail: info@concretebiz.com  
Internet: www.concretebiz.com



Würschum GmbH · Postfach 4144 · 73744 Ostfildern · Germany  
Tel.: 0711/448 13-0 · Fax: 0711/ 448 13-110 · E-mail: info@wuerschum.com · Internet: www.wuerschum.com