

2021.01

Valid from 01.01.21 till 31.12.21

WATROPUR
Cold temperature / Sludge drying solutions

WATROMAT®
Sludge drying solutions

WATROPUR is your partner for dewatering and drying of sludge from industrial or municipal wastewater treatment plants

Adhesive and Automobile manufacturers, Beverage industries, Malting, Fish and Meat factories, Dairies, Distilleries, Coffee waste recycling, Electroplating, Galvanizing, Coating, Hospitals, Chemical-, Pharmaceutical- and Cosmetic industries, Oil refineries, Foundries, Cold and hot pressing, Electro polishing, Metal/Electrical industry, Municipal sewage treatment plants, Packaging painting, Printed circuit boards, Precious metals recycling, Silicon processors, Wire manufacturer, Tanneries, Textile industries, Microorganisms, Railway and aircraft industries, Paper and Pulp industries

3000 sludge dryer references plants in more than 50 countries

W11	Switzerland	Watropur AG	Unterseen
W12	Germany	Watropur GmbH	Düren
W13	Netherland	Watropur BV	Leusden
W14	Croatia	Watropur d.o.o.	Krizevci
W15	Colombia	Watropur SAS	Bogota
W16	Turkey	Watropur Ltd	Istanbul
W17	China	Watropur Ltd	Hong-Kong
W18	China	Watropur Ltd	Lianyungang
W19	Italy	Watropur Srl	Parma
W20	Rumania	Watropur Ltd	Avrig
W21	Hungary	Bonotec Kft	Sopron
W24	Austria	Watropur GmbH	Kumberg
W25	France	Watropur SA	Flayosc
W26	Korea	Watropur Ltd	Daegu
W28	Finland	Watropur Oy	Lahti

www.watropur.com

info@watropur.com

CH-Unterseen 2500m2



HU-Sopron, 1200m2



CRO-Krizevci, 11'000 m2

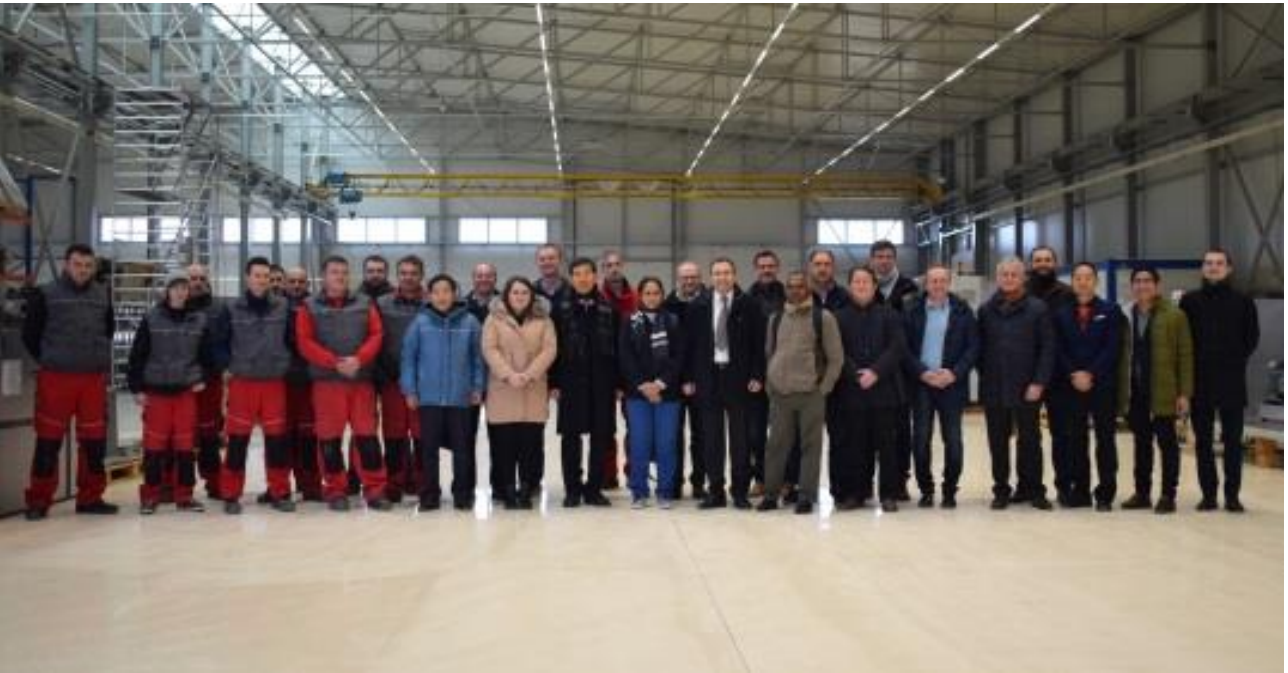


CH-Lianyungang, Ganju, Jiangsu, 16'000 m2





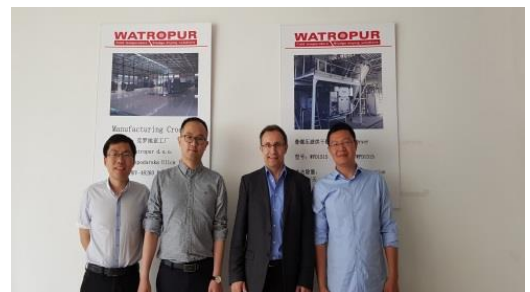
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Inlet % dried solids		Outlet % dried solids	part
2-8	Press-dryer Screw press, Polymer unit, Platform	90	1
20-40	Bunker-dryer Bunker, Belt dryer, Loading	90	2
25-45	Container-dryer Drying container	90	3
30-50	Skip-dryer Drying skip, Bagging hopper	90	4
Transport	Erection, Commissioning, Supervising		5

	page	part
	10-23	1
	24-47	2
	48-54	3
	55-61	4
	62-72	5

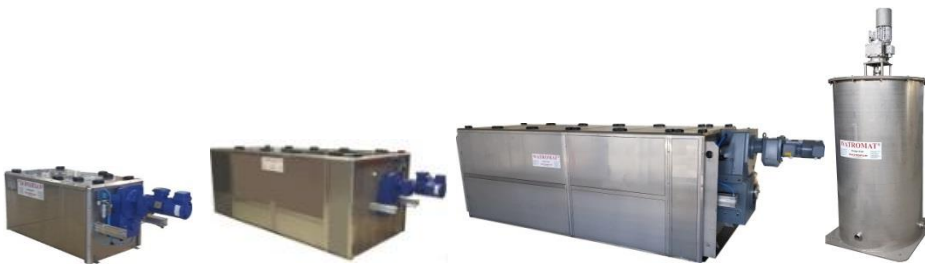
Press-dryer

Page Part



12

10



17

11



20

12



21

13

	Page	Part
Press-dryer	12	10
Screw press Platform	17	11
Polymer unit	20	12
Pump Thickener, ISO Container	21	13

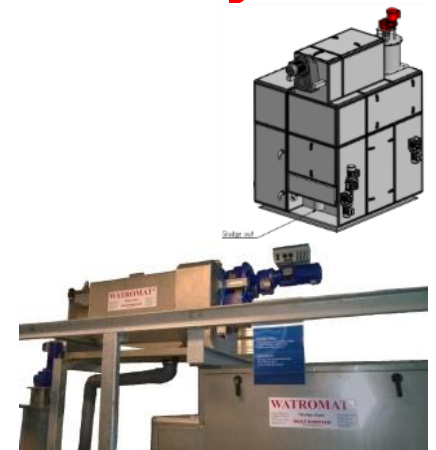
Press-dryer 10

WATROMAT® Press-dryer

Press-dryer for sludge from industrial or municipal waste water treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 50 l/min (>6 Bar), noise level <75dBA, sludge pH value 6.0-9.0.

Material SS304, screw press filter and mixing tank SS316
Delivery 1 pc screw press, 1 pc belt dryer, 1 pc Polymer unit liquid, 1 pc sludge pump, 2 pcs flow meters, 1 pc mixing tank, 1 pc pressure transmitter, 1 pc collecting spiral 230XXXXXX, 1 pc master control cabinet
Not included Platform to hold screw press 110400XXX, piping 130100XXX

		type	WPD0508
100100100	Press-dryer	€	181567
Throughput dried solids (screw press 110100100)	t/day		0.3 - 2
Dryer water removal at 5-40 °C environment	t/day		0.8
Electric power consumption	kWh		14.1
Cooling water >3 Bar (calculated at 24°C)	m ³ /h		0.3
Length X	m		2
Width Y	m		2
Height Z	m		2.7
Weight empty	kg		2200
Weight full	kg		2500

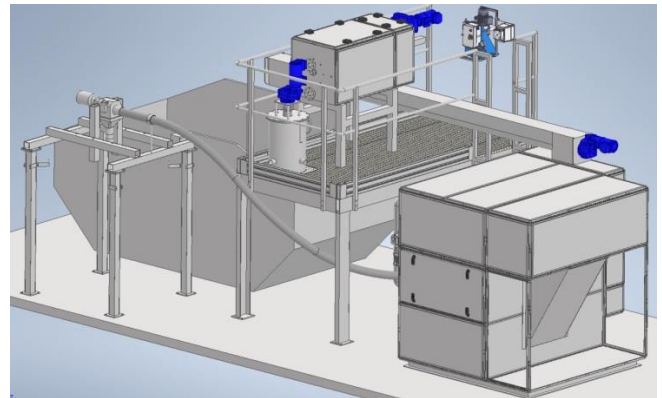


WATROMAT® Press-dryer

Press-dryer for sludge from industrial or municipal waste water treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 50 l/min (>6 Bar), noise level <75dBA, sludge pH value 6.0-9.0.

Material SS304, screw press filter and mixing tank SS316
Delivery 1 pc screw press, 1 pc belt dryer, 1 pc Polymer unit liquid, 1 pc sludge pump, 2 pcs flow meters, 1 pc mixing tank, 1 pc pressure transmitter, 1 pc master control cabinet
Not included Collecting conveyor or spiral 230XXXXXX, platform to hold screw press 110400XXX, Piping 130100XXX, bagging point 230100XXX

		type	WPD0515
100100100	Press-dryer	€	210657
Throughput dried solids (screw press 110100100)	t/day		0.3 - 2
Dryer water removal at 5-40 °C environment	t/day		1.5
Electric power consumption	kWh		23
Cooling water >3 Bar (calculated at 24°C)	m ³ /h		0.5
Length X	m		2.2
Width Y	m		2
Height Z	m		2.7
Weight empty	kg		3100
Weight full	kg		3600



Press-dryer 10

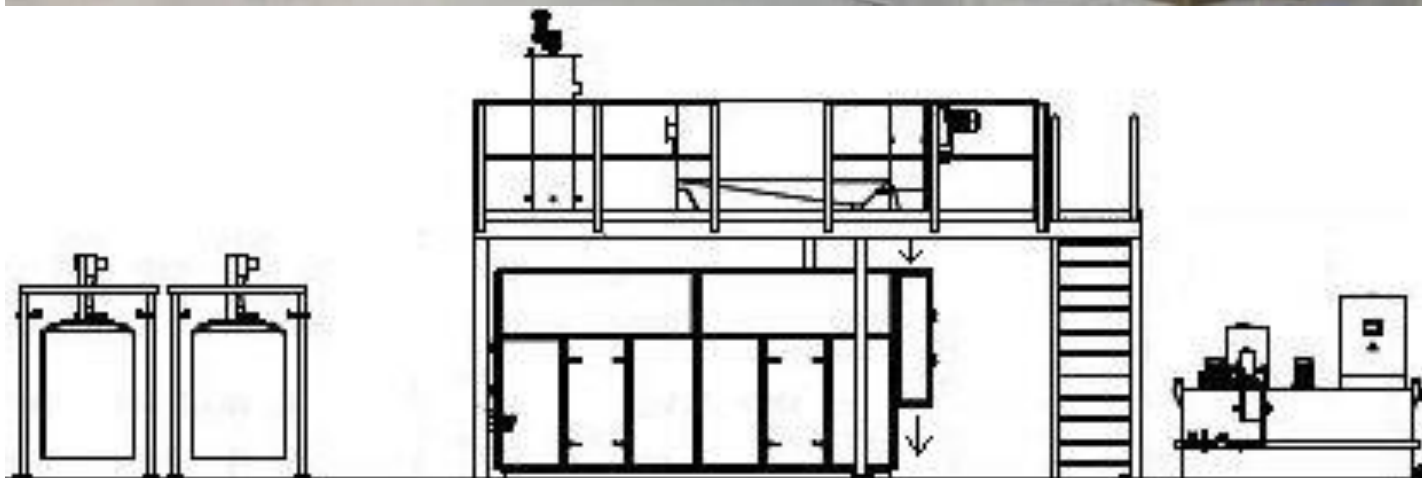
WATROMAT® Press-dryer

Press-dryer for sludge from industrial or municipal waste water treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 50 l/min (>6 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

- Material** SS304, screw press filter and mixing tank SS316
Delivery 1 pc screw press, 1 pc belt dryer, 1 pc Polymer unit liquid, 1 pc sludge pump, 2 pcs flow meters, 1 pc mixing tank, 1 pc pressure transmitter, 1 pc master control cabinet
Not included Collecting conveyor or spiral 230XXXXXX, platform to hold screw press 110400XXX, Piping 130100XXX, bagging points



100100200	Press-dryer	type	WPD1515	WPD1530	WPD1545	WPD1560	WPD1575	WPD1590
		€	237414	305869	374300	439741	506154	572504
Throughput dried solids (screw press 110100100)	t/day				0.6 - 4			
Dryer water removal at 5-40 °C environment	t/day		1.5	3	4.5	6	7.5	9
Electric power consumption	kWh		23	43	63	83	102	124
Cooling water >3 Bar (calculated at 24°C)	m ³ /h		0.5	1	1.5	2	2.5	3
Length X	m		2.2	4.1	6	7.9	9.8	11.6
Width Y	m					2		
Height Z	m					3		
Weight empty	kg		3400	4200	5000	6000	6700	7500
Weight full	kg		3900	5100	6400	8100	9300	9200



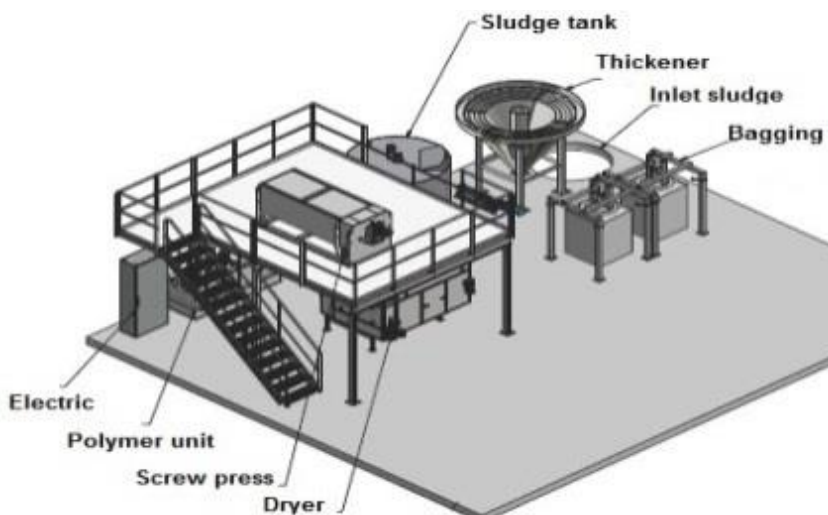
Press-dryer 10

WATROMAT® Press-dryer

Press-dryer for sludge from industrial or municipal waste water treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 50 l/min (>6 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

- Material** SS304, screw press filter and mixing tank SS316
- Delivery** 1 pc screw press, 1 pc belt dryer, 1 pc Polymer unit liquid, 1 pc sludge pump, 2 pcs flow meters, 1 pc mixing tank, 1 pc pressure transmitter, 1 pc master control cabinet
- Not included** Collecting conveyor or spiral 230XXXXX, Platform to hold screw press 110400XXX, Piping 130100XXX

100100300	Press-dryer	type	WPD2560	WPD2575	WPD2590	WPD25105	WPD25120
		€	471864	538277	604627	670975	732744
Throughput dried solids (screw press 110100100)	t/day				1.2 - 8		
Dryer water removal at 5-40 °C environment	t/day		6	7.5	9	10.5	12
Electric power consumption	kWh		83	103	125	148	172
Cooling water >3 Bar, (calculated at 24°C)	m ³ /h		2	2.5	3	3.5	4
Length X	m		7.9	9.8	11.6	13.5	15.4
Width Y	m				2		
Height Z	m				3.3		
Weight empty	kg		6200	7000	7800	8600	9300
Weight full	kg		8300	9500	13100	14800	15500

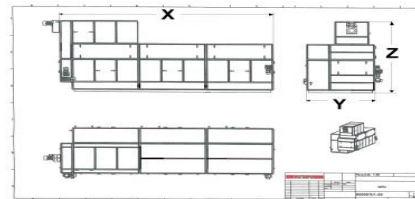


Press-dryer 10

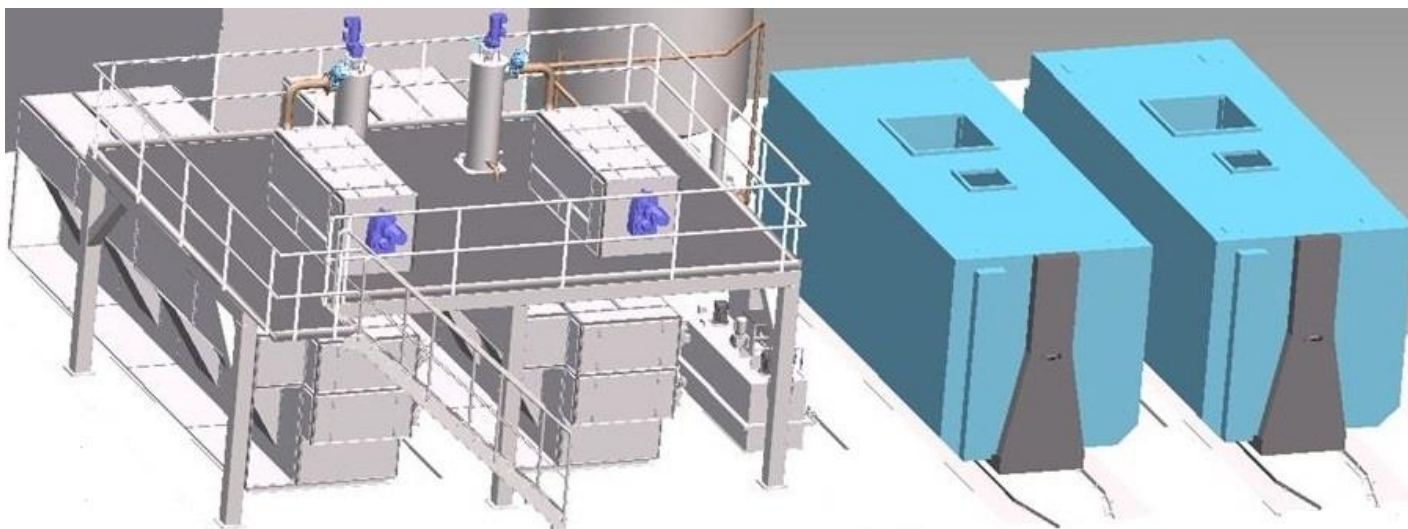
WATROMAT® Press-dryer

Press-dryer for sludge from industrial or municipal waste water treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 50 l/min (>6 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

- Material** SS304, screw press filter and mixing tank SS316
Delivery 1 pc screw press, 1 pc belt dryer, 1 pc Polymer unit liquid, 1 pc sludge pump, 2 pcs flow meters, 1 pc mixing tank, 1 pc pressure transmitter, 1 pc master control cabinet
Not included Collecting conveyor or spiral 230XXXXXX, Platform to hold screw press 110400XXX, Dried solids sensor 130200300, Piping 130100XXX



100100400	Press-dryer	type	WPD5090	WPD50105	WPD50120
		€	657871	724219	785988
	Throughput dried solids (screw press 110100100)	t/day		2.4-12	
	Dryer water removal at 5-40 °C environment	t/day	9	10.5	12
	Electric power consumption	kWh	127	151	177
	Cooling water >3 Bar, (calculated at 24°C)	m ³ /h	2	2.5	3
	Length X	m	11.6	13.5	15.4
	Width Y	m		1.9	
	Height Z	m		3.7	
	Weight empty	kg	10900	11800	12750
	Weight full	kg	14900	15000	15900



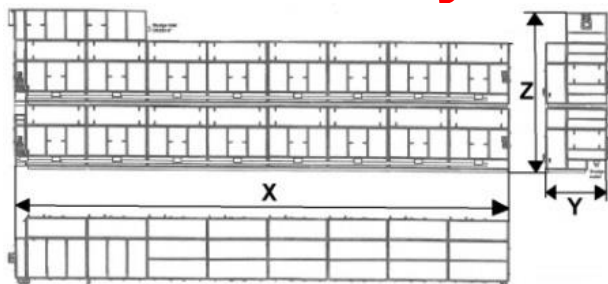
Press-double dryer 10

WATROMAT® Press-double dryer

Press-double-dryer for sludge from industrial or municipal waste water treatment plants, inlet approx. 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 50 l/min (>6 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

Material SS304 (SS316)
Delivery 1 pc screw press, 2 pcs belt dryers
1 pc Polymer unit powder, 1 pc polymer pump, 1 pc flow meter Polymer
1 pc mixing tank, 1 pc pressure sensor
1 pc sludge pump, 1 pc dried solids sensor, 1 flow meter sludge
1 pc master control cabinet

Not included Collecting conveyor or spiral 230XXXXXX
Platforms to hold upper dryer and screw press 110400XXX/210100XXX
Dried solids sensor 130200300, Piping 130100XXX



	type	WPD25120D	WPD25150D	WPD25180D	WPD25210D	WPD25240D
100100500	Press-double-dryer	€ 796411	€ 921225	€ 1065735	€ 1250626	€ 1336648
Throughput dried solids (screw press 110100100)	t/day			1.2 - 8		
Dryer water removal at 5-40 °C environment	t/day	2x6	2x7.5	2x9	2x10.5	2x12
Electric power consumption	kWh	2x83	2x104	2x125	2x146	2x177
Cooling water >3 Bar (calculated at 24°C)	m ³ /h	2x4	2x2.25	2x3	2x3.5	2x4
Length X	m	7.9	9.5	11.7	13.6	15.4
Width Y	m			2		
Height Z	m			5.5		
Weight empty	kg	8800	9600	12100	14500	15800
Weight full	kg	15000	16800	17400	11940	21400

	type	WPD50120D	WPD50150D	WPD50180D	WPD50210D	WPD50240D
100100500	Press-double-dryer	€ 912407	€ 1037221	€ 1181731	€ 1366622	€ 1452644
Throughput dried solids	t/day			2.4 - 12		
Dryer water removal at 5-40 °C environment	t/day	2x6	2x7.5	2x9	2x10.5	2x12
Electric power consumption	kWh	2x83	2x104	2x125	2x146	2x164
Cooling water >3 Bar (calculated at 24°C)	m ³ /h	2x4	2x2.25	2x3	2x3.5	2x4
Length X	m	7.9	9.5	11.7	13.6	15.4
Width Y	m			2		
Height Z	m			6		
Weight empty	kg	9600	12100	14500	15800	17500
Weight full	kg	16800	17400	11940	21400	23200

Control cabinet press-dryer 10

WATROMAT® Control cabinet press-dryer

Control cabinet, execution as WATROMAT® master (M) or as slave (S), master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, switching and protective devices, command and signaling devices, wired and tested.

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz
- Power code 2: 3 x 480 V / 1 x 110 V / 60 Hz

Material: Siemens
Delivery: 1 pc cabinet
Not included: Control cabinet belt dryer



	type	WEL208MWP05	WEL208MWP15	WEL208MWP25	WEL208MWP50
100100900	Control cabinet press-dryer	€ 21692	€ 25872	€ 26972	€ 30646
Length X	mm		800		
Width Y	mm		400		
Height Z	mm		2100		
Weight	kg	56	64	69	75



Screw press 11

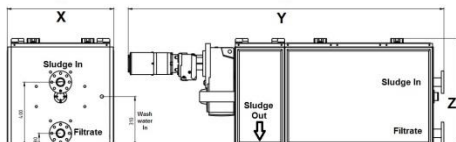


WATROMAT® Screw press

Screw press for sludge from industrial or municipal wastewater treatment plants, inlet 2-8 % dried solids, outlet organic sludge 20-35 % dried solids, inorganic sludge 20-50 % dried solids, sludge pH value 6.0-9.0.

Material SS316 screw and filter, SS304 housing
Delivery 1 pc screw press
Not included Mixing tank 110200100, Pressure transmitter 110200200
 Polymer unit 120100XXX
 Polymer pump and flow meter 120200XXX
 Sludge pump and flow meter 130100XXX
 Dried solids sensor 130100300
 Control cabinet screw press 110100900
 Piping

	type	WSP05	WSP15	WSP25	WSP50	WSP75
110100100	Screw press	€ 47565	€ 62630	€ 85052	€ 124075	€ 162575
Throughput dried solids organic (biological)	t/day	0.3 - 1.4	0.6 - 2.8	1.2 - 5.6	2.4 - 8.4	3.6 - 13
Throughput dried solids inorganic (chemical)	t/day	0.6 - 2	1.2 - 4	2.4 - 8	4.8 - 12	7.2 - 16
Electric power	kWh	0.25	0.55	1.5	4	9
Wash water	m ³ /day	0.3	0.6	1.2	1.8	3.6
Compressed air >6 Bar	l/min			50		
Diameter inlet sludge	mm	50		100		150
Diameter outlet filtrate	Mm	50		100		150
Length X	mm	1985	2940	3447	3510	6015
Width Y	mm	670	980		1290	
Height Z	mm	673		980		1265
Weight empty	kg	500	1400	2200	4200	8600
Weight full	kg	600	1600	2600	4800	9300



	type	WHR250	WHR400	WHR500	WHR600	WHR700
110100200	Sealing screw press	€/Set 1984	€/Set 2640	€/Set 3217	€/Set 3985	€/Set 4654
Screw press	Type	WSP05	WSP15	WSP25	WSP50	WSP75
Sealing half ring	Pcs/set			16		
Diameter	mm	250	400	500	600	700
Weight	kg/Set	3	5	7	10	15

	type	WHR250	WHR400	WHR500	WHR600	WHR700
110100300	Nozzle washing water	€/pc		17		
Screw press	Type	WSP05	WSP15	WSP25	WSP50	WSP75
Thread	"			1/4		
Quantity	Pcs	10	22	35	45	65



	type	WHR250
110100400	Wash water valve	€ 140
Coil voltage	VDC	24

Control cabinet screw press 11

WATROMAT® Control cabinet screw press

Control cabinet, execution as WATROMAT® master (M) or as slave (S), master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, switching and protective devices, command and signaling devices, wired and tested

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz
- Power code 2: 3 x 480 V / 1 x 110 V / 60 Hz

Material WEL86 Polyester, WEL208 painted RAL9002
Delivery 1 pc cabinet
Not included:



	type	WEL86MWSP05	WEL86MWSP15	WEL86MWSP25	WEL208MWSP50	WEL208MWSP75
110100900	Cabinet screw press	€ 13666	€ 14526	€ 15444	€ 16390	€ 17452
Length X	mm		600		800	
Width Y	mm		300		400	
Height Z	mm		800		2100	
Weight	kg	30	35	40	75	85

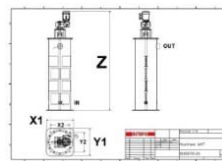


Mixing tank 11

WATROMAT® Mixing tank

Mixing tank for gentle mixing from sludge with polymer solution, closed pressure tank with baffles, agitator, nozzle pressure transmitter

Material SS316
Delivery 1 pc mixing tank
Not included Pressure transmitter 110200200



	type	WMT05	WMT15	WMT25	WMT50	WMT75
110200100	Mixing tank	€ 8535	14860	19465	25160	37940
Volume	Liter	50	150	250	750	1500
Electric power consumption	kWh	0.37	0.37	0.37	0.55	
Diameter inlet (down)	mm	4x 50 (2" threat)			1x100 (4" threat)	
Diameter outlet (up)	mm	50	100		150	
Length X1	mm	500			900	1000
Width Y1	mm	500			900	1000
Height Z	mm	1237	1826	1971	2031	2636
Weight empty	kg	100	200	300	480	600
Weight full	kg	250	450	800	1330	2100



	type	WPT1
110200200	Pressure transmitter	€ 1085
Measuring range	mA	4-20

	type	WMT
110200300	Graphite seal	€/m 24

Screw press skid 11

WATROMAT® Screw press skid

Screw press skid for sludge from industrial or municipal wastewater treatment plants, inlet 2-8 % dried solids, outlet organic sludge 20-35 % dried solids, inorganic sludge 20-50 % dried solids, sludge pH value 6.0-9.0.

Material SS316 screw and filter, housing SS304, tube PVC
Delivery 1 pc skid
1 pc screw press
1 pc mixing tank
1 pc Polymer liquid unit incl. peristaltic dosing pump
1 pc sludge pump
2 pc flow meter
1 pc control cabinet

Not included

	type	WSP05skid	WSP15skid
110300100	Screw press skid	€ 79884	97884
Throughput dried solids	t/day	0.3 - 2	0.6 - 4
Electric power consumption	kWh	1.7	3
Polymer liquid (50 % active)	l/hour	0.6	1.2
Water for Polymer	l/hour	180	360
Water for washing screw press	m ³ /day	0.3	0.6
Length X	m	2	3
Width Y	m	1.2	1.5
Height Z	m	1.6	1.9
Weight empty	kg	600	1600
Weight full	kg	750	1900



Platform 11

WATROMAT® Platform

Platform to hold and maintain screw press and mixing tank, with stair 800 mm double sided railing, and grating, whole construction is screwed in individual segments

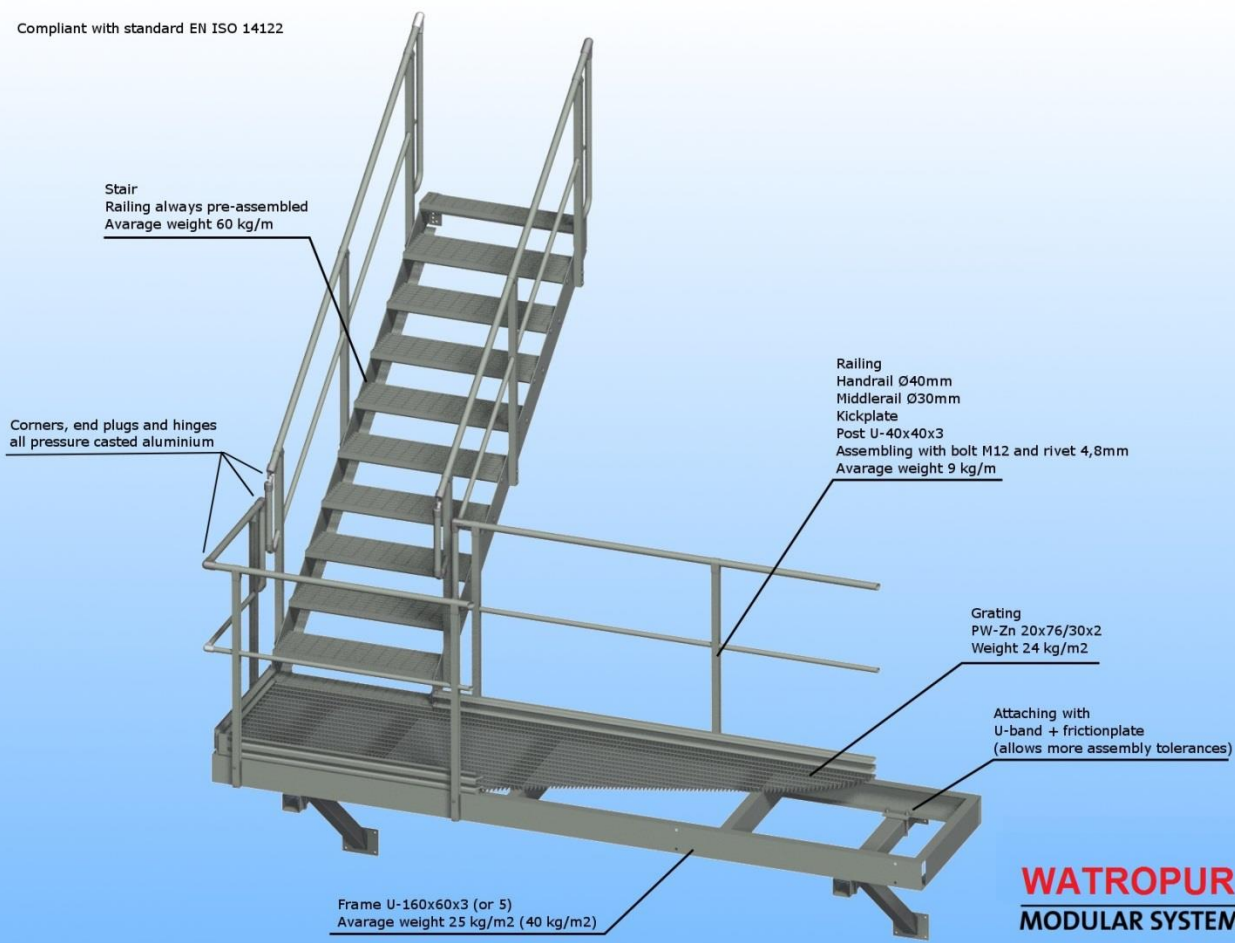
Material Hot galvanized
Delivery 1 pc platform (individual segments)
Not included Assembling on site



	type	WSP05	WSP15	WSP25	WSP50	WSP75
110400100	Platform	€ 26356	€ 35240	€ 45643	€ 58600	€ 64360
110400101	SS304	€ 38216	€ 51098	€ 66182	€ 84970	€ 93322
Weight screw press	t	1	2	3	5	10
Weight mixing tank	t	0.2	0.5	0.8	1.5	2.2
Length X	mm	6090	6710	7330	7950	8570
Width Y	mm	2770	3080		3390	
Height Z	mm		2500		2800	
Weight platform	T	2.2	2.6	3.2	3.6	4.1

	type	2xWSP05	2xWSP15	2xWSP25	2xWSP50	2xWSP75
110400200	Platform	€ 39535	€ 52860	€ 68465	€ 87400	€ 96540
110400201	SS304	€ 57326	€ 76647	€ 99274	€ 126730	€ 139983
Weight screw press	t	2x1	2x2	2x3	2x5	2x10
Weight mixing tank	t	2x0.2	2x0.5	2x0.8	2x1.5	2x2.2
Length X	mm	6090	6710	7330	7950	8570
Width Y	mm	4390	5010		5630	
Height Z	mm		2500		2800	
Weight platform	T	3.4	4.2	5.5	6.2	7.2

Compliant with standard EN ISO 14122



Polymer unit 12

WATROMAT® Polymer liquid

Polymer dosing unit for emulsion Polymer, inlet 50 % active, outlet 0.1 % solution, peristaltic dosing pump for polymer concentrate, mixing chamber with agitator, polymer solution feed with water network pressure, control cabinet

Material Polypropylen
Delivery 1 pc Polymer unit
Not included

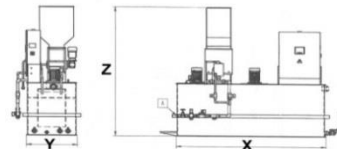


		type	WPL6	WPL12	WPL30	WPL135
120100100	Polymer liquid	€	8756	11256	14613	21070
Screw press	type		WSP05	WSP15	WSP25	WSP50
Liquid (50 % active)	l/hour		0.6	1.2	3.0	13.5
Water (>3 Bar)	l/hour		180	300	600	900
Electric power consumption	kWh			0.1		0.25
Length X	mm			520		637
Width Y	mm			302		504
Height Z	mm			534		588
Weight	kg			25		63

WATROMAT® Polymer powder

Polymer preparation unit for powder Polymer, inlet powder, outlet 0,1 – 0,2 % Polymer water solution, three chambers for dissolving (WPP1 two chambers), maturation and storage, dissolving and maturation chamber with agitators, hopper for powder storage, control cabinet.

Material Polypropylen
Delivery 1 pc Polymer unit, 1 pc hopper
Not included Pump Polymere 120300100



		type	WPP1	WPP2	WPP4	WPP8	WPP16
120100200	Polymer powder	€	29840	39735	42850	55840	62210
Screw press	type		WSP05	WSP15	WSP25	WSP50	WSP75
Powder (100 % active)	kg/hour		0.8	2	4	8	16
Water clean, >3 Bar	l/hour		400	1000	2000	4000	8000
Electric power consumption	kWh		1.5	2.6	3.2	5.0	9.5
Volume hopper	l		50		100		
Length X	mm		1638	1890	3237	2190	2940
Width Y	mm		1351	862	1148	1062	1062
Height Z	mm		2030	2119	2119	3105	3305
Weight empty	kg		250	400	500	600	1200
Weight full	kg		400	1000	1200	1500	2400



Pump (Polymer) 13

WATROMAT® Pump (Polymer)

Pump for Polymer solution with approx. 0.1-0.2 % active Polymer.

Material Material rotor: 1.2436; Material stator: Nitrile PVC
Delivery 1 pc pump
Not included



		type	WPU0	WPU2	WPU4	WPU10	WPU20
130100100	Pump (Polymer)	€	2620	3538	4596	4806	5645
Screw press	type		WSP05	WSP15	WSP25	WSP50	WSP75
Throughput	m3/hour		0.5	2	4	10	20
Electric power consumption	kWh		0.55	0.75	1.5	2.2	4
Length X	mm		1030	1030	1665	1665	2110
Width Y	mm		240	240	270	270	350
Height Z	mm		245	245	245	304	304
Weight	kg		48	53	58	70	85

		type	WFM15	WFM20	WFM25	WFM40	WFM50
130100200	Flow meter (Polymer)	€	1110	2586	3090	3280	3460
Throughput	m3/hour		0.5	2	4	10	20
Diameter	mm		15	20	25	40	50

		type	WSM10	WSM20
130100300	Polymer-injector	€	3680	5650
Throughput	m3/hour		10	20
Diameter	mm		50	100



Pump (sludge) 13

WATROMAT® Pump (sludge)

Pump for sludge with approx. 2 % dried solids, need macerator in front.

Material Material rotor: 1.2436; Material stator: Nitrile PVC
Delivery 1 pc pump
Not included

		type	WPU2	WPU4	WPU10	WPU20	WPU30
130200100	Pump (sludge)	€	3538	4596	4806	5645	6602
Screw press	type		WSP05	WSP15	WSP25	WSP50	WSP75
Throughput	m3/hour		2	4	10	20	30
Electric power consumption	kWh		0.75	1.5	2.2	4	7.5
Length X	mm		1030	1665	1665	2110	2450
Width Y	mm		240	270	270	350	350
Height Z	mm		245	245	304	304	404
Weight	kg		53	58	70	85	120

		type	WPU2	WPU4	WPU10	WPU20	WPU30
130200200	Stator	€	865	960	1090	1245	1476

		type	WFM20	WFM25	WFM40	WFM50	WFM95
130200200	Flow meter (sludge)	€	2586	3090	3280	3460	4060
Throughput	m3/hour		2	4	10	20	30
Diameter	mm		20	25	40	50	95

		type	WDS10
130200300	Dried solids sensor	€	28850
Throughput	m3/hour		10-20
Diameter	mm		100



Piping 13

WATROMAT® Piping

Piping from sludge pump to mixing tank max. 10 m horizontal and max. 4 m vertical, piping from Polymer unit to mixing tank including ball back flow valve max. 5 m, piping mixing tank to screw press max. 1 m, 3 sample valves, without pipe clamps

Material PVC
Delivery 1 pc set
Not included Pipe clamps



		type	WTU05	WTU15	WTU25	WTU50	WTU75
130300100	Piping	€	3360	3675	4029	4434	5175
	Screw press	type	WSP05	WSP15	WSP25	WSP50	WSP75
	Throughput	m3/h	2	4	10	20	30
	Diameter pipe Polymer pump till mixing tank	mm	20	25		32	50
	Diameter pipe sludge pump till mixing tank	mm	25	32		100	
	Diameter pipe mixing tank till screw press	mm	50		100		150

ISO Container 13

WATROMAT® ISO Container

ISO container for housing of screw press, belt dryer and bagging unit, air-conditioned and heated, illuminated, floor and wall isolated 60 mm, roof isolated 100mm, door, window, for outdoor installation.

Material Painted
Delivery 1 pc ISO container assembled
Not included



		type	WCO20	WCO40
130400100	ISO Container	€	79884	113709
	Electric power consumption	kWh		0.8
	Length X	mm	6055	12192
	Width Y	mm		2435
	Height Z inside/outside	mm		2340/2591
	Weight empty	T	2.3	3.9



Thickener 13

WATROMAT® Thickener

Static thickener for biological waste water, inlet 0.1 % dried solids, outlet 2 % dried solids.

Material SS316
Delivery 1 pc thickener, 1 pc sludge storage tank, 2 pneumatically valves
Not included Control cabinet 120900100



		type	WTH5	WTH10
130500100	Thickener	€	178940	209920
Volume	m3		5	10
Electric power consumption	kWh		2.2	
Height	mm		3600	4200
Diameter	mm		3400	4000
Weight empty	t		1.6	2
Weight full	t		6.6	12

Control cabinet thickener 13

WATROMAT® Control cabinet thickener

Control cabinet, execution as WATROMAT® master (M) or as slave (S), master with touch panel, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, switching and protective devices, command and signaling devices, wired and tested



- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz
- Power code 2: 3 x 480 V / 1 x 110 V / 60 Hz

Material Polyester
Delivery 1 pc cabinet
Not included

		type	WEL86S1WTH	WEL86S2WTH
130500900	Control cabinet thickener	€	9856	14850
Thickener	pc		1	2
Length X	mm		600	
Width Y	mm		300	
Height Z	mm		800	
Weight	kg		35	45



Bunker-dryer

Page Part



26

20



29

21



37

22



42

23

	Page	Part
Bunker-dryer	26	20
Belt dryer	29	21
Bunker	37	22
Loading Bag, Container, Silo	42	23

Bunker-dryer 20

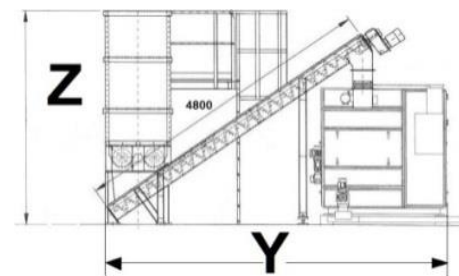
WATROMAT® Bunker-dryer

Bunker-dryer for sludge from industrial or municipal waste water treatment plants, inlet 20-60 % dried solids, outlet 90 % dried solids, drying temperature 30°C/86°F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

Material Bunker hot galvanized, SS304 or SS316; dryer SS304
Delivery 1 pc bunker with 2 pcs discharge conveyors, 1 pc increasing conveyor, 1 pc belt dryer
Not included 1 pc control cabinet bunker 200100900
 Collecting conveyor or spiral 230XXXXXX



	type	WBU05WBD04	WBU05WBD08	WBU05WBD15
200100500	Bunker-dryer	€ 205649	249803	315135
200100501	SS304	€ 248105	273696	300151
200100502	SS316	€ 254746	271922	310612
Bunker volume activ	m ³		5	
Water removal at 5-40 °C environment	t/day	0.4	0.8	1.5
Electric power consumption	kWh	10.7	15.7	23.7
Cooling water >3 Bar (24°C)	m ³ /h	0.2	0.3	0.5
Length X	m		3.5	
Width Y	m		6	
Height Z	m		3.4	
Weight empty	t	1.5	1.7	1.8
Weight full	t	6.5	6.7	6.8



Bunker-dryer 20

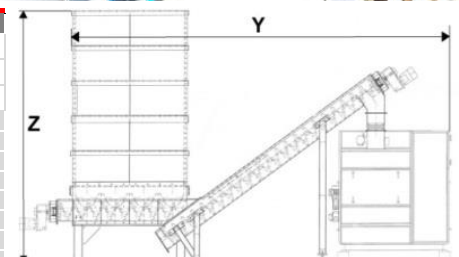
WATROMAT® Bunker-dryer

Bunker-dryer for sludge from industrial or municipal waste water treatment plants, inlet 20-60 % dried solids, outlet 90 % dried solids, drying temperature 30°C/86°F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

Material Bunker hot galvanized, SS304 or SS316; dryer SS304
Delivery 1 pc bunker with 5 pcs discharge conveyors, 1 collecting conveyor
 1 pc increasing conveyor, 1 pc belt dryer
Not included 1 pc control cabinet bunker 200100900
 Collecting conveyor or spiral 230XXXXXX



	type	WBU10WBD15	WBU10WBD30	WBU10WBD45
200100600	Bunker-dryer	€ 273482	341937	449448
200100601	SS304	€ 314366	382821	451252
200100602	SS316	€ 373649	442104	510535
Bunker volume activ	m ³		10	
Water removal at 5-40 °C environment	t/day	1.5	3	4.5
Electric power consumption	kWh	27.8	47.8	67.8
Cooling water >3 Bar (24°C)	m ³ /h	0.5	1	1.5
Length X	m		4.6	6
Width Y	m		6	
Height Z	m		2.6	
Weight empty	t	7	8	9
Weight full	t	17	18	19



Bunker-dryer 20

WATROMAT® Bunker-dryer

Bunker-dryer for sludge from industrial or municipal waste water treatment plants, inlet 20-60 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

Material Bunker hot galvanized, SS304 or SS316; dryer SS304
Delivery 1 pc bunker with 5 pcs discharge conveyors, 1 collecting conveyor
 1 pc increasing conveyor, 1 pc belt dryer
 1 pc control cabinet bunker 200100900
Not included Collecting conveyor or spiral 230XXXXXX



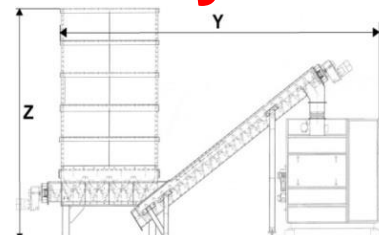
		type	WBU18WBD30	WBU18WBD45	WBU18WBD60
200100600	Bunker-dryer	€	353937	666917	534093
200100601	SS304	€	400221	468652	534093
200100602	SS316	€	467334	535765	601206
Bunker volume activ	m3			18	
Water removal at 5-40 °C environment	t/day		3	4.5	6
Electric power consumption	kWh		47.8	67.8	86.8
Cooling water >3 Bar (24°C)	m3/h		1	1.5	2
Length X	m		5.9		7.9
Width Y	m		6		
Height Z	m		3.2		
Weight empty	t		8	9	10
Weight full	t		23	24	25

Bunker-dryer 20

WATROMAT® Bunker-dryer

Bunker-dryer for sludge from industrial or municipal waste water treatment plants, inlet minimum 20 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

Material Bunker hot galvanized, SS304 or SS316; dryer SS304
Delivery 1 pc bunker with 5 pcs discharge conveyors, 1 collecting conveyor
 1 pc increasing conveyor, 1 pc belt dryer
 1 pc control cabinet bunker 200100900
Not included Collecting conveyor or spiral 230XXXXXX



		type	WBU25WBD60	WBU25WBD75	WBU25WBD90	WBU25WBD105	WBU25WBD120
200100600	Bunker-dryer	€	570311	636724	645765	712113	831191
200100601	SS304	€	570311	636724	703074	769422	831191
200100602	SS316	€	653410	824574	786173	852521	914290
Bunker volume activ	m3		25				
Water removal at 5-40 °C environment	t/day		6	7	9	10.5	12
Electric power consumption	kWh		88	108	128	148	168
Cooling water >3 Bar (24°C)	m3/h		2	2.5	3	3.5	4
Length X	m		7.9	9.5	11.7	13.6	15.4
Width Y	m		6				
Height Z	m		4.2				
Weight empty	t		10	11	12	13	14
Weight full	t		35	36	37	38	39

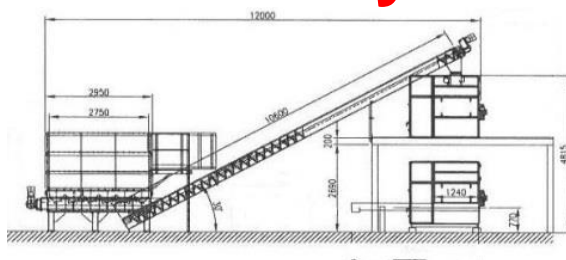


Bunker-double dryer 20

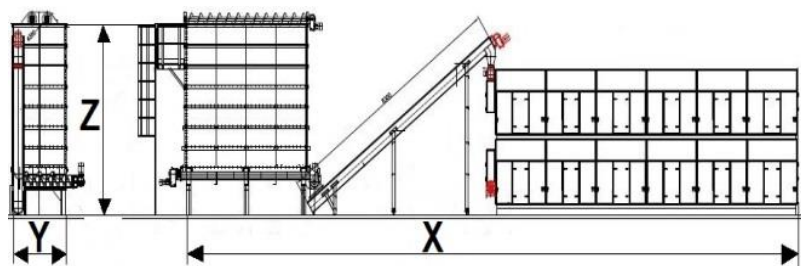
WATROMAT® Bunker-double dryer

Bunker-double dryer for sludge from industrial or municipal waste water treatment plants, inlet minimum 20 % dried solids, outlet 90 % dried solids, drying temperature 30°C/86°F, bunker next to dryer, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

- Material** Bunker hot galvanized, SS304 or SS316, dryer SS304
Delivery 1 pc bunker with 5 pcs discharge conveyors, 1 pc collecting conveyor
 1 pc increasing belt, 1 pc double belt dryer (2 pcs belt dryers)
 1 pc control cabinet, 1 pc platform to hold upper dryer
 1 pc control cabinet bunker 200100900
Not included Collecting conveyor or spiral 230XXXXXX
 Sludge duct connection between the two dryers



	type	WBU35WBD120D	WBU35WBD150D	WBU35WBD180D	WBU35WBD210D	WBU35WBD240D
200100700	Bunker-double dryer	€ 885973	€ 1083338	€ 1238251	€ 1436099	€ 1527881
200100701	SS304	€ 1052220	€ 1189916	€ 1212627	€ 1397518	€ 1647563
200100702	SS316	€ 1183766	€ 1321462	€ 1349510	€ 1553189	€ 1779109
Bunker volume activ	m3	25-30				
Water removal at 5-40 °C environment	t/day	2x6	2x7.5	2x9	2x10.5	2x12
Electric power consumption	kWh	2x80	2x100	2x120	2x140	2x160
Cooling water >3 Bar (24°C)	m3/h	2x2	2x2.5	2x3	2x3.5	2x4
Length X	m	22.9	24.9	26.8	28.7	30.6
Width Y	m	2.6				
Height Z	m	5.5				
Weight empty (WBU35)	t	21	23.3	25.1	27	28.9
Weight full	t	36	38	40	42	44



Control cabinet bunker 20

WATROMAT® Control cabinet bunker

Control cabinet, execution as WATROMAT®-Master (M) or as Slave (S)-cabinet, master with Siemens touch panel MTP1200 Unified Comfort, slave without Touch Panel, Profinet-Bus, SPS Siemens S7-1512, IO System ET200SP, power distribution, switching and protective devices, command and signalling devices, wired and tested

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz
- Power code 2: 3 x 480 V / 1 x 110 V / 60 Hz

- Material** Painted RAL9002
Delivery 1 pc cabinet
Not included



	type	WEL208WBU00	WEL208WBU05	WEL36WBU18	WEL208WBU25	WEL208WBU35
200100900	Control cabinet bunker	€ 16115	€ 17446	€ 18172	€ 18865	€ 20752
Bunker	type	WBU00X	WBU5	WBU10-18	WBU25	WBU35
Length X	mm	600				
Width Y	mm	800				
Height Z	mm	2000				
Weight	kg	30	35	40	75	85



WATROMAT® Belt dryer

Belt dryer for sludge from industrial or municipal waste water treatment plant, inlet minimum 20 % dried solids, outlet 90 % dried solids, sludge feed continuous, 24 h/day, minimum 30 min/h, sludge piece size maximum 20 mm, drying temperature 30 °C/86 °F, specific electric power consumption 333 W/kg H₂O, bottom frame C-profile 80 mm high, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0.

Material SS304
Delivery 1 pc belt dryer with integrated control cabinet
Not included Shredder and rake 210200XXX

		type	WBD04	WBD08
210100100	Belt dryer	€	79790	95016
Water removal at 5-40 °C environment	t/day		0.4	0.8
Electric power consumption	kWh		8	13
Cooling water >3 Bar (24°C)	m ³ /h		0.2	0.3
Length X	m		1.3	1.9
Width Y	m		1.6	
Height Z	m		2	
Weight empty	t		0.8	1.4
Weight full	t		0.9	1.8

Belt dryer 21



Belt dryer 21

WATROMAT® Belt dryer

Belt dryer for sludge from industrial or municipal waste water treatment plant, inlet minimum 20 % dried solids, outlet 90 % dried solids, sludge feed continuous, 24 h/day, minimum 30 min/h, sludge piece size maximum 100 mm, drying temperature 30 °C/86 °F, specific electric power consumption 333 W/kg H₂O, shredder WSH1240.310 and rake WRA1200 included, bottom frame C-profile 80 mm high, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

Material SS304
Delivery 1 pc belt dryer, 1 pc master control cabinet
Not included Collecting spiral 230100XXX or collecting conveyor 230500XXX

		type	WBD15	WBD30	WBD45	WBD60
210100200	Belt dryer	€	124106	192561	260992	326433
Water removal at 5-40 °C environment	t/day		1.5	3	4.5	6
Electric power consumption	kWh		20	40	60	80
Cooling water >3 Bar (24°C)	m ³ /h		0.5	1.0	1.5	2
Length X	m		2.2	4.2	6	7.9
Width Y	m		2			
Height Z	m		2			
Weight empty	t		1.4	2.4	3.6	4.1
Weight full	t		1.8	3.2	4.8	5.7



Belt dryer 21

WATROMAT® Belt dryer

Belt dryer for sludge from industrial or municipal waste water treatment plant, inlet minimum 20 % dried solids, outlet 90 % dried solids, sludge feed continuous, 24 h/day, minimum 30 min/h, sludge piece size maximum 100 mm, drying temperature 30 °C/86 °F, specific electric power consumption 333 W/kg H₂O, shredder WSH1240.310 and rake WRA1200 included, bottom frame H-profile 120 mm high, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

- Material** SS304
- Delivery** 1 pc belt dryer, 1 pc master control cabinet
- Not included** Collecting spiral 230100XXX or collecting conveyor 230500XXX



	type	WBD75	WBD90	WBD105	WBD120
210100300	Belt dryer	€ 392846	459196	525544	587313
Water removal at 5-40 °C environment	t/day	7.5	9	10.5	12
Electric power consumption	kWh	100	120	140	160
Cooling water >3 Bar (24°C)	m ³ /h	2.5	3	3.5	4
Length X	m	9.5	11.7	13.6	15.4
Width Y	m	2			
Height Z	m	2			
Weight empty	t	5.1	6.7	8.3	10
Weight full	t	7.9	8.3	9.9	11.6

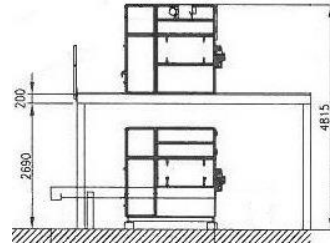


Double belt dryer 21

WATROMAT® Double belt dryer

Double belt dryer for sludge from industrial or municipal waste water treatment plant, inlet minimum 20 % dried solids, outlet 90 % dried solids, sludge feed continuous, 24 h/day, minimum 30 min/h, sludge piece size maximum 100 mm, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, shredder WSH1240.310 and two rakes WRA1200 included, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

Material SS304
Delivery 1 pc double belt dryer (2 pcs belt dryers), 1 pc master control cabinet
Not included Collecting spiral 230100XXX or collecting conveyor 230500XXX
 Platform for hold upper dryer
 Sludge duct between upper and lower dryer



	type	WBD120D	WBD150D	WBD180D	WBD210D	WBD240D
210100500	Double belt dryer	€ 650980	775794	920304	1105195	1191217
Water removal at 5-40 °C environment	t/day	2x6	2x7.5	2x9	2x10.5	2x12
Electric power consumption	kWh	2x80	2x100	2x120	2x140	2x160
Cooling water >3 Bar (24°C)	m ³ /h	2x2	2x2.5	2x3	2x3.5	2x4
Length X	m	7.9	9.5	11.7	13.6	15.4
Width Y	m			2		
Height Z	m			4.815		
Weight empty	t	8.2	10.2	12.2	15	17
Weight full	t	10	14.2	17.4	21.6	23



Platform 21

WATROMAT® Platform

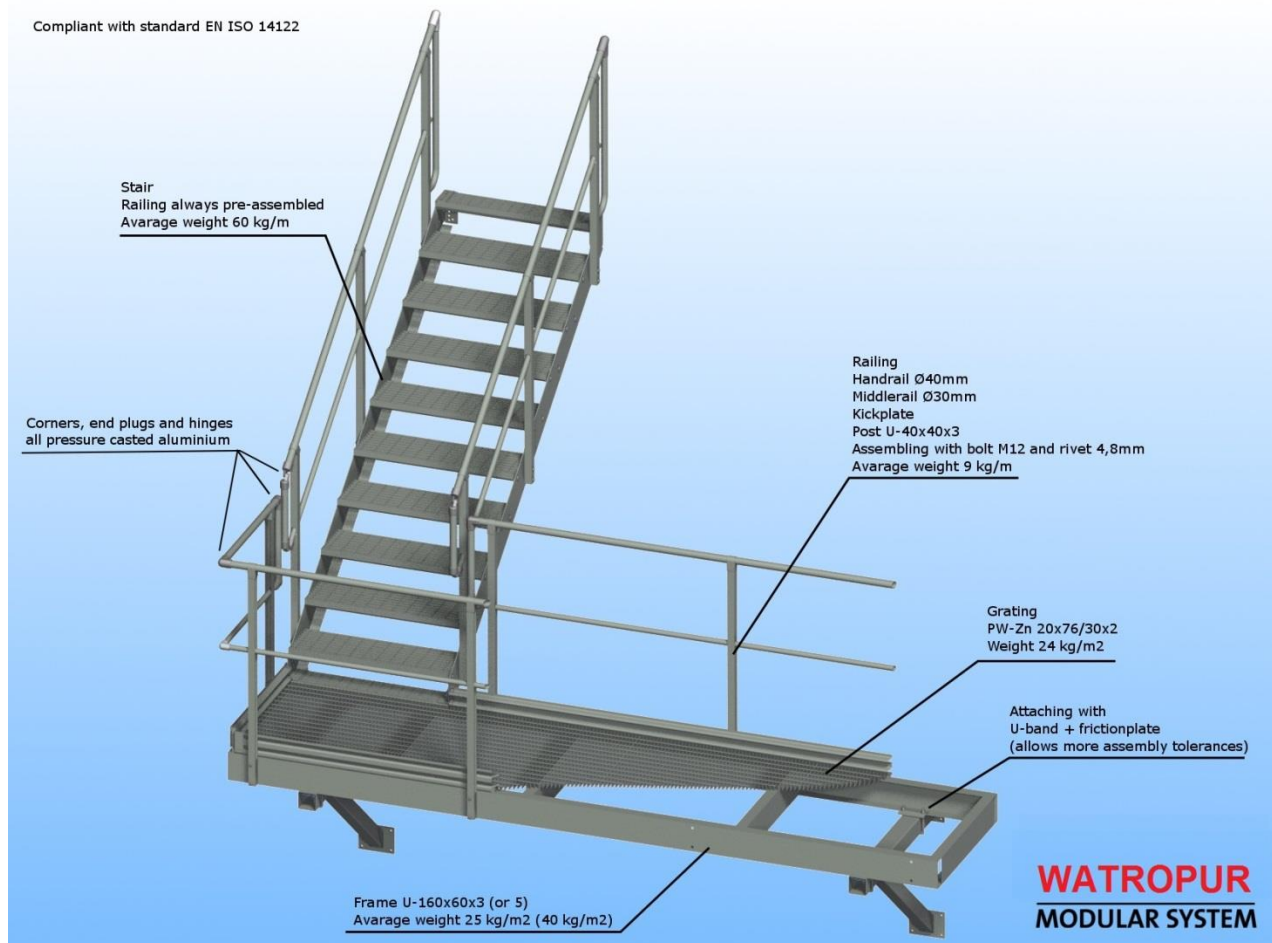
Platform to hold and maintain upper belt dryer, with stair 800 mm double sided railing, and grating, whole construction is screwed in individual segments

Material Hot galvanized
Delivery 1 pc platform (individual segments)
Not included Installation on site



	type	WBD120D	WBD150D	WBD180D	WBD210D	WBD240D
210100800	Platform	€ 26356	€ 35240	€ 45643	€ 58600	€ 64360
210100801	SS304	€ 38216	€ 51098	€ 66182	€ 84970	€ 93322
Weight belt dryer	t	9.9	7.1	8.7	17	19
Length X	m	10	11.5	13.7	7950	8570
Width Y	m			3.8		
Height Z	m			2.89		
Weight platform	t	2.2	2.6	3.2	3.6	4.1

Compliant with standard EN ISO 14122



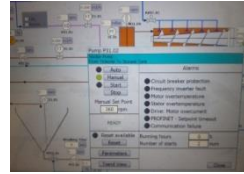
Control cabinet belt dryer 21

WATROMAT® Control cabinet belt dryer

Control cabinet, execution as WATROMAT®-Master (M) or as Slave (S)-cabinet, master with Touch Panel KTP900, slave without Touch Panel, Profinet-Bus, SPS Siemens S7-1512, IO System ET200SP, power distribution, switching and protective devices, command and signalling devices, wired and tested

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz
- Power code 2: 3 x 480 V / 1 x 110 V / 60 Hz

Material Polyester
Delivery 1 pc control cabinet
Not included



210100900	Control cabinet belt dryer	type	WEL64S
		€	9422
	Length X	mm	300
	Width Y	mm	400
	Height Z	mm	600
	Weight	kg	41



210100900	Control cabinet belt dryer	type	WEL86MWBD04	WEL86MWBD08
		€	13750	14438
	Length X	mm		300
	Width Y	mm		600
	Height Z	mm		800
	Weight	kg	41	43



210100900	Control cabinet belt dryer	type	WEL208MWBD15	WEL208MWBD30	WEL208MWBD45	WEL208MWBD60
		€	16390	16995	17485	17859
	Length X	mm			400	
	Width Y	mm			800	
	Height Z	mm			2100	
	Weight	kg	120	125	130	140



210100900	Control cabinet belt dryer	type	WEL208MWBD75	WEL208MWBD90	WEL208MWBD105	WEL208MWBD120
		€	18537	19085	19642	20202
	Length X	mm			400	
	Width Y	mm			800	
	Height Z	mm			2100	
	Weight	kg	145	150	155	160



210100900	Control cabinet double belt dryer	Type	WEL208MWBD120D	WEL208MWBD150D	WEL86MWBD180D	WEL208MWBD210D	WEL208MWBD240D
		€	20422	21434	22425	23392	24321
	Length X	mm			400		
	Width Y	mm			2x800		
	Height Z	mm			2100		
	Weight	kg	250	255	260	280	295



Transmitter 21

WATROMAT® Transmitter

Material
Delivery 1 pc transmitter
Not included

210100910	Transmitter 4-20 mA	type	WODS10	WHT46C	WDS851000	WAL030
		€	485	425	415	385
	Range		0.05 - 12 m	0.05 - 3 m	0-1000 Pascal	0-30 Bar
	Function		analog	1 switch	analog	analog



Shredder 21

WATROMAT® Shredder

Shredder for sludge with minimum 20 % dried solids, installed at inlet of belt dryer 210100XXX, inlet sludge size maximum 100 mm, outlet approx. 20 mm, sludge feed continuous 24 hours/day, minimum 30 min/h.

Material SS304
Delivery 1 pc shredder
Not included



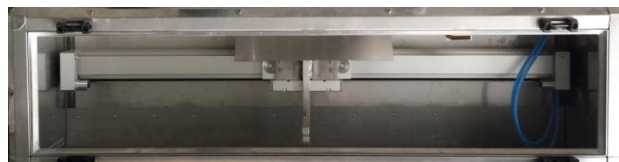
		type	WSH300.200	WSH1240.310
210200100	Shredder	€	8875	15460
Belt dryer	type		WB04-08	WBD15-WBD240
Electric power	kWh		0.37	
Capacity sludge	t/day		6	30
Length inside	mm		300	1240
Width inside	mm		200	310
Height inside	mm		300	310
Weight	kg		50	110

		type	WSH
210200110	Sprocket	€	445
Shredder	type		WHS

WATROMAT® Rake

Rake with linear pneumatic drive for distribution of sludge pieces over the entire width of the belts, installed at the beginning of the belts (belt dryer 210100XXX), for sludge with minimum 20 % dried solids, sludge size maximum 25 mm, pressure air 25 l/min (>3 Bar), sludge feed continuous 24 hours/day, minimum 30 min/h, pressure air control system.

Material SS304
Delivery 1 pc rake
Not included



		type	WRA900	WRA1200
210200200	Rake	€	4250	4680
Length	mm		900	1200
Weight	kg		22	26

WATROMAT® Linear Drive

Linear drive for rake 210200200

Material SS304
Delivery 1 pc rake
Not included Pressure air control system

		type	WRA900	WRA1200
210200210	Linear drive pneumatique	€	2345	2984
210200220	Linear drive electric	€	5446	5945
Length	mm		900	1200
Weight	kg		14	16

WATROMAT® Rotary

Rotary for loosening of sludge layers, sludge from waste water treatment plants with minimum 40 % dried solids.

Material SS304
Delivery 1 pc round shaft d25mm with 36 round teeth's, 2 pcs bearings, 1 pc gearbox motor
Not included Installation



		type	WRO900	WRO1200
210200300	Rotary	€	2346	2956
Belt dryer	type		WBD04-08	WBD15-240DD
Electric power	kWh		0.37	
Length	mm		900	1200
Weight	kg		21	25

Rotary 21

Heat exchanger 21

WATROMAT® Heat exchanger

Heat exchanger and cooling compressor for belt dryer 210100XXX. Evaporator for cooling and condenser for heating of drying air cycle.

Material SS304
Delivery 1 pc
Not included

		type	EVAP04	EVAP08	EVAP15
210300101	Evaporator (cooling)	€	7071	9890	12450
210300102	SS314	€	8319	11635	14647
Belt dryer	type		WBD04	WBD08	WBD15-240DD
Length X	mm		975	1680	1810
Width Y	mm		310	310	300
Height Z	mm		540	420	620
Weight	kg		54	71	90



		type	COND04	COND08	COND15
210300201	Condenser (heating)	€	7677	11828	14162
210300202	SS314	€	9032	15092	21162
Belt dryer	type		WBD04	WBD08	WBD15-240DD
Length X	mm		975	1680	1730
Width Y	mm		370	360	350
Height Z	mm		540	420	620
Weight	kg		69	85	113



		type	COMP04	COMP08	COMP15
210300300	Compressor	€	4896	9456	13'542
Belt dryer	type		WBD04	WBD08	WBD15-240DD



		type	VENT04	VENT08	VENT15
210300400	Ventilator	€	3163	5371	6807
Belt dryer	type		WBD04	WBD08	WBD15-240D



		type	Dual Hinge
210300500	Dual Hinge	€	42



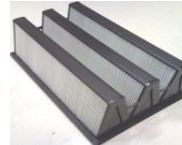
Filter and belt 21

WATROMAT® Filter

Compact filter for belt dryer 210100XXX, WBD04 and WBD08: 1 pc, WBD15: 2 pcs, WBD30: 4 pcs, WBD45: 6 pcs, WBD60: 8 pcs, WBD75: 10 pcs, WBD90: 12 pcs, WBD12DD: 12 pcs, WBD15DD: 16 pcs, WBD18DD: 24 pcs, WBD215: 20 pcs, WBD240: 32 pcs.

Material: Polyester
Delivery: 1 pc
Not included: Prefilter and mounting frame 210400XXX

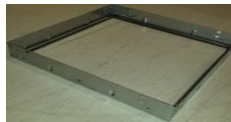
		type	869.592.292 (after 2016)	892.592.292 (before 2015)
210400100	Compact filter	€	576	612
Length X	mm		869	897
Width Y	mm		592	592
Height Z	mm		292	380
Weight	kg		7	7



		type	869.592.20
210400200	Prefilter	€	828
Length X	mm		869
Width Y	mm		592
Height Z	mm		20
Weight	kg		3



		type	887.609.70
210400300	Mounting frame	€	460
Length X	mm		887
Width Y	mm		609
Height Z	mm		70
Weight	kg		2



WATROMAT® Filter cleaner

Filter cleaner for compact filter 210400100, 1 pc filter cleaner cleans 2 pcs filters, pressure air 240 ml/min, >3 Bar, compressed air 250 l/min (>6 Bar), control cabinet

Material: Aluminium
Delivery: 1 pc
Not included:

		type	887.609.310
210400500	Filter cleaner	€	19744
Length X	mm		869
Width Y	mm		592
Height Z	mm		292
Weight	kg		26

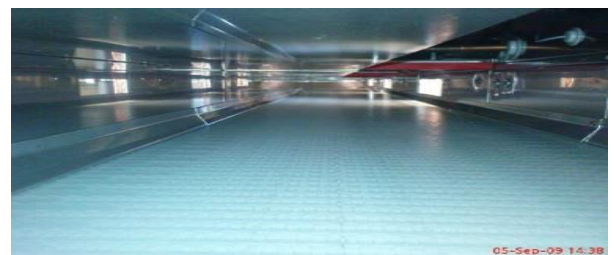


WATROMAT® Belt

Multiple belts made of modular perforated parts, drive with sprockets and ball bearing.

Material: Polypropylen
Delivery: Min. 1 m
Not included:

		type	WBE09	WBE12
210500100	Belt	€/m (length)	623	798
Belt dryer	type		WBD04-08	WBD15-240D
Width	m		0,9	1,2
Weight	kg/m (length)		4,5	6



		type	WSO25	WSO35
210500200	Sprocket belt	€	124	156
Belt dryer	type		WBD04-60/120D	WBD75-240D
Diameter shaft	mm		25	35
Weight	kg		0,3	0,4



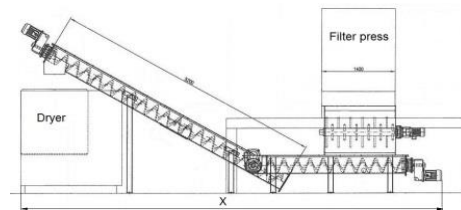
		type	WSO25	WSO35
210500300	Ball bearing SS304	€	56	66
Belt dryer	type		WBD04-60	WBD75-240D
Diameter shaft	mm		25	35
Weight	kg		0,3	0,4

Hopper filter cake 22

WATROMAT® Hopper filter cake

Hopper filter cake for sludge with minimum 20 % dried solids, transport filter cakes from filter presses to the belt dryer (210000XXX), platform with railing and stair for holding the filter press, sludge hopper with two shredders and one discharge screw, discharge screw transport sludge to increasing conveyor (220600100).

Material Hopper hot galvanized
Delivery 1 pc platform for holding 1 pc filter press, 1 pc hopper, 2 pc shredders
 1 pc discharge screw
Not included 1 pc increasing conveyor, 1 pc filter press



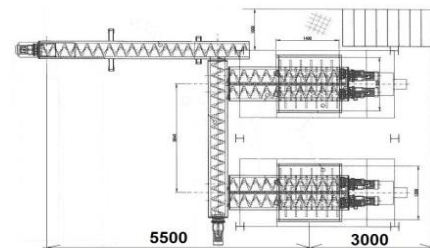
	type	WB003	WB005	WB007
220100100	Hopper filter cake	€ 92564	€ 98650	€ 114250
220100101	SS304	€ 134218	€ 143043	€ 165663
220100102	SS316	€ 161987	€ 172638	€ 199938
Filter press automat plates size	mm	1200x1200		
Filter press volume	l	320	480	640
Length hopper	m	1.4	2.1	2.8
Electric power shredder	kWh	2 x 1.1		
Electric power discharge screw	kWh	0.55		
Electric power collecting conveyor	kWh	0.75		
Length X	m	8		
Width Y	m	3		
Height Z (platform/incl. filter press automat)	m	1.5 (3.7)		
Weight empty incl. filter press automat	t	2.5	3	4
Weight full incl. filter press automat	t	3	3.5	4.5

Hopper filter cake 22

WATROMAT® Hopper filter cake

Hopper filter cake for sludge with minimum 20 % dried solids, transport filter cakes from filter presses to the belt dryer (210000XXX), platform with railing and stair for holding two filter presses, two sludge hoppers with 4 shredders, 4 discharge screws and one collecting conveyor, collecting conveyor transport sludge to increasing conveyor (220600100).

Material Hopper hot galvanized
Delivery 1 pc platform for holding 2 filter presses
 2 pcs hopper, 4 pcs shredders, 4 pcs discharge screws
 1 pc collecting conveyor
Not included 1 pc increasing conveyor, 2 pcs filter presses



	type	WB003D	WB005D	WB007D
220100200	Hopper filter cake	€ 150473	€ 165699	€ 194789
220100201	SS304	€ 218186	€ 240264	€ 282444
220100202	SS316	€ 263328	€ 289973	€ 340881
Filter press automat plates size	mm	1200x1200		
Filter press volume	l	2x320	2x480	2x640
Length hopper	m	2x1.4	2x2.1	2x2.8
Electric power shredder	kWh	4x1.1		
Electric power discharge screw	kWh	2x0.55		
Electric power collecting conveyor	kWh	0.75		
Length X	m	8		
Width Y	m	6		
Height Z (platform/incl. filter press automat)	m	1.5/3.7		
Weight empty	t	4	6	8
Weight full	t	5	7	9

Bunker 22

WATROMAT® Bunker

Bunker for sludge with minimum 20 % dried solids, receives sewage sludge to operate belt dryer (210100XXX) continuously, Bunker walls segments including stiffeners and struts, discharge floor with two progressively pushing spirals, increasing conveyor (220600XXX) transport sludge to belt dryer (210100XXX)

Material Hot galvanized, legs galvanized
Delivery 1 pc discharge floor
3 pcs bunker wall segments
Not included Increasing conveyor 220600XXX

	type	WBU05
220200100	Bunker	€ 68063
220200101	SS304	€ 98691
220200102	SS316	€ 119110
Volume geometric	m3	5.6
Electric power consumption discharge conveyors	kWh	2x0.37
Length bunker X	m	3.15
Width bunker Y	m	1.1
Height bunker Z	m	3.4
Weight empty	t	3.8
Weight full	t	8.8



Bunker 22

WATROMAT® Bunker

Bunker for sludge with minimum 20 % dried solids. Receives sewage sludge to operate belt dryer 210100XXX continuously, Bunker walls segments including stiffeners and struts, discharge floor with five progressively pushing spirals and collecting conveyor, collecting conveyor transport sludge to increasing conveyor, increasing conveyor (220600XXX) transport sludge to belt dryer (210100XXX)

Material Hot galvanized, legs galvanized
Delivery 1 pc discharge floor with 5 pcs discharge conveyors
5 pcs bunker wall segments
1 pc collecting conveyor
Not included Increasing conveyor 220600XXX

	type	WBU10	WBU18	WBU25	WBU35
220300100	Bunker	€ 90854	€ 102854	€ 127354	€ 201602
220300101	SS304	€ 131738	€ 149138	€ 184663	€ 292323
220300102	SS316	€ 191021	€ 216251	€ 267762	€ 423868
Volume geometric	m3	11	18	27	36
Electric power consumption bunker conveyor	kWh	5x0.37			
Electric power consumption collecting conveyor	kWh	2.2			
Length bunker X	m	4.5			
Width bunker Y	m	2			
Height bunker Z	m	2.5	3.0	3.7	4.4
Weight empty	t	5.4	6.7	6.8	11
Weight full	t	15.4	25	30	36



Platform Ladder 22

WATROMAT® Platform Ladder

Platform with railing, ladder with security back ring, connection to bunker prepared

Material Hot galvanized
Delivery 1 pc platform, 1 pc ladder
Not included



	type	WBU05	WBU10	WBU15	WBU20	WBU25	WBU35
220300900	Platform ladder	€ 4200	€ 3750	€ 4100	€ 4350	€ 4650	€ 4950
220300901	SS304	€ 6090	€ 5438	€ 5945	€ 6308	€ 6743	€ 7178
220300902	SS16	€ 10658	€ 9516	€ 10404	€ 11038	€ 11799	€ 12561
Platform size	m x m	0.8 x 0.8					
Ladder height	m	3.4	2.5	3.1	3.7	4.3	4.9
Weight	kg	180	160	180	200	220	240

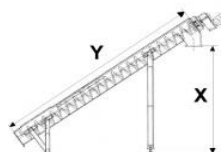
Increasing conveyor 22

WATROMAT® Increasing conveyor

Increasing conveyor for sludge with minimum 20 % dried solids, transport sludge from bunker (220100XXX, 220200XXX, 220300XXX) to the belt dryer (210100XXX)

Material Hot galvanized
Delivery 1 pc increasing conveyor
2 pcs supports

Not included



	type	WSC4800/35	WSC4629/35
220600100	Increasing conveyor	€ 40350	38650
220600101	SS304	€ 54473	52178
220600102	SS316	€ 62543	59908
Bunker 220100XXX	type	WBU00X-05	WBU10-25
Belt dryer 210100XXX	Type	WBD04-120	
Electric power	kWh	3	
Capacity	m3/h	2	
Length Y	mm	4800	4629
Increasing degree	°	35	
Height X	m	2.4	
Weight	kg	450	560

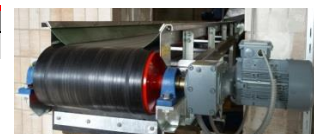
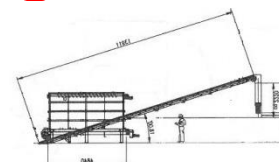
Increasing belt 22

WATROMAT® Increasing belt

Increasing belt for sludge with minimum 20 % dried solids, transport sludge from bunker (220XXXXXX) to the belt dryer (210100XXX).

Material Belt vulcanized, guides SS304, frame galvanized
Delivery 1 pc increasing belt
2 pcs supports hot galvanized

Not included



	type	WSC5400/18	WSC4900/18	WSC8329/18	WSC13900/18
220600200	Increasing belt	€ 40350	38400	49950	58452
Bunker	type	WBU00X-05	WBU10-25	WBU10-35	
Belt dryer	Type	WBD04-120		WBD120D-240D	
Electric power	kWh	2.2		3	
Capacity	m3/h	2		3	
Length Y	mm	5400	4900	8329	13900
Increasing degree	°	18		18	
Height X	m	2.4		4.8	>4.8
Weight	kg	250	280	360	380

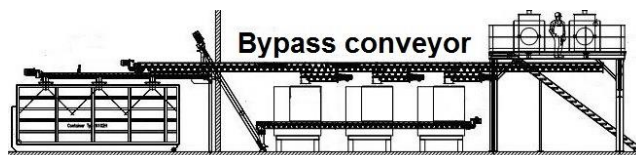
Bypass conveyor 22

WATROMAT® Bypass conveyor

Bypass conveyor for sludge with minimum 20 % dried solids, transport sludge from screw press (110100XXX) to belt dryer (210100XXX) or to transport container (bypass sludge dryer), every 3 m outlets for connection with dosing conveyor (220900XXX).

Material Hot galvanized
Delivery 1-3 pc segments bypass conveyor

Not included



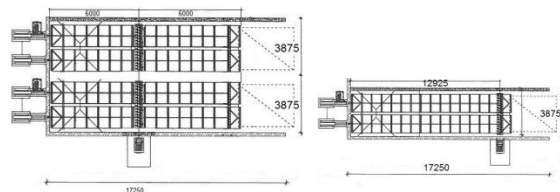
	type	WSC4500	WSC7500	WSC10500	WSC13500	WSC16500	WSC19500
220600300	Bypass conveyor	€ 42546	48563	56556	62563	68856	74765
220600301	SS304	€ 63819	72845	84834	93845	103284	112148
220600302	SS16	€ 72328	82557	96145	106357	117055	127101
Electric power	kWh	0.35	0.55	0.75	1.1	1.5	2.2
Capacity	m3/h	10					
Length	m	4.5	7.5	10.5	13.5	16.5	19.5
Weight	kg	480	780	1080	1380	1680	1980

Push rod bunker22

WATROMAT® Push rod bunker

Push rod bunker for sludge with minimum 20 % dried solids. Bunker walls made of concrete. One side open for truck loading, receives sewage sludge to operate belt dryer 210100XXX continuously, push rod discharge floor with 2-rod version with hydraulic stations, push rod transport sludge into chain conveyor 220900XXX.

Material SS304
Delivery 2 or 4 pcs push rod, 2 or 4 pcs hydraulic stations
Not included Bunker walls (concrete), chain conveyor 220900XXX
Control cabinet push rod



		type	WBU150	WBU300
220800100	Push rod	€	240135	414348
Volume geometric		m3	150	2x150
Electric power hydraulic station		kWh	2x5.5	4x5.5
Length and width push rod		m	12 x 3.8	
Length bunker X		m	17.25	
Width bunker		m	3.875	2x3.875
Height bunker Z		m	3.7	
Weight empty		t	5	10
Weight full		t	15	30



Control cabinet push rod 20

WATROMAT® Control cabinet push rod

Control cabinet, execution as WATROMAT®-Master (M) or as Slave (S)-cabinet, master with Siemens touch panel MTP1200 Unified Comfort, slave without Touch Panel, Profinet-Bus, SPS Siemens S7-1512, IO System ET200SP, power distribution, switching and protective devices, command and signalling devices, wired and tested

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz
- Power code 2: 3 x 480 V / 1 x 110 V / 60 Hz

Material Painted RAL9002
Delivery 1 pc cabinet
Not included



		type	WEL208WBU150	WEL208WBU300
200800900	Control cabinet puhs rod	€	19865	25652
Bunker (chain and dosing conveyor included)		type	WBU150	WBU300
Length X		mm	600	
Width Y		mm	800	
Height Z		mm	2000	
Weight		kg	30	35



Chain conveyor 22

WATROMAT® Chain conveyor

Chain conveyor for sludge with minimum 20 % dried solid, collect sludge from push rod (220800100) and transport it up over the belt dryer to the dosing conveyor (220900XXX), Z-shape, horizontal-increasing-horizontal.

Material Hot galvanized
Delivery 1-10 pcs segments chain conveyoyr
Not included



		type	WCC2	WCC3	WCC4	WCC5
220900100	Chain conveyor	€	89650	125350	165000	194000
220900101	SS304	€	129993	181758	239250	281300
220900102	SS316	€	138958	194293	255750	300700
Outlets		type	2	3	4	5
Capacity sludge		m3/h	2	4	6	8
Electric power		kWh	4			
Capacity		m3/h	10			
Lenght horizontal (below push rod)		m	5		10	
Lenght increasing (45°)		m	6			
Length horizontal (over belt dryer inlets)		m	5	9	13	17
Width		m	0.5			
Height		m	0.5			
Weight		t	2.0	2.5	3.0	3.6



Dosing conveyor 22

WATROMAT® Dosing conveyor

Dosing conveyor for sludge with minimum 20 % dried solids, transport sludge from bypass conveyor (220700XXX) or chain conveyor (220900XXX) to belt dryer (210100XXX).

Material Hot galvanized
Delivery 1 pc dosing conveyor
Not included



		type	WSC2500
220900200	Dosing conveyor	€	9865
220900201	SS304	€	12565
220900202	SS316	€	13456
Capacity sludge		m3/h	2
Electric power		kWh	0.35
Capacity		m3/h	2
Lenght		m	2.5
Weight		kg	480

Collecting spiral 23

WATROMAT® Collecting spiral

Collecting spiral for dry sludge with minimum 80 % dried solids, is installed inside belt dryer (210100XXX) under the end of the belt, collect dry sludge and transport it into dry sludge conveyor spiral (230100XXX)

Material SS304
Delivery 1 pc collecting spiral
Not included



	type	WSC900	WSC1200
230100101	Collecting spiral	€ 3265	€ 3685
Belt dryer	type	WBD04-08	WBD15-120
Electric power	kWh	0.37	
Capacity	m3/h	0.5	
Length	mm	900	1200
Weight	kg	4	15

Bagging spiral 23

WATROMAT® Bagging spiral

Bagging spiral for sludge with minimum 80 % dried solids, flexible spiral, maximum length 24 m with maximum 3 pcs of 45 degree elbows and maximum feed height of 2,4 m, elbows with radius 1.5 m need minimum 3.6 length for 2,4 m height, transport sludge from belt dryer (210100XXX) to bagging point (230120XXX), beginning of spiral with end piece and intake boot, end of the spiral with control unit, full flow detector and motor, between tubes, elbows and outlet drops, length depend on type of bagging point (230600100).


Material Steel, pipe PVC
Delivery 1 pc flexible spiral, 1 pc motor, 1 pc control unit, 1 pc end piece, pcs tubes, elbows, intake boot, outlet drops, tube connectors with clamps
Not included Bottom/wall fixation for tubes



	type	WSC9	WSC12	WSC15	WSC18	WLS21	WLS24
230100200	Bagging spiral	€ 3850	€ 4450	€ 5050	€ 5650	€ 6250	€ 6850
Pipe (1 pc = 3 m)	pcs	3	4	5	6	7	8
Intake boot	pcs	1	2	3	4	5	6
Outlet drop	pcs	3	4	5	6	7	8
Tube clamps	pcs	5	10	15	20	25	35
Length X	m	9	12	15	18	21	24
Weight	kg	65	95	125	155	185	215

230100210	Motor	€ 775
Electric power consumption	kW	0.75
Capacity	m3/h	0.5

230100220	Control unit with full flow detector	€ 780
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230100230	Flexible spiral	€/m 183
Weight	kg/m	1.5

230100240	End piece	€ 265
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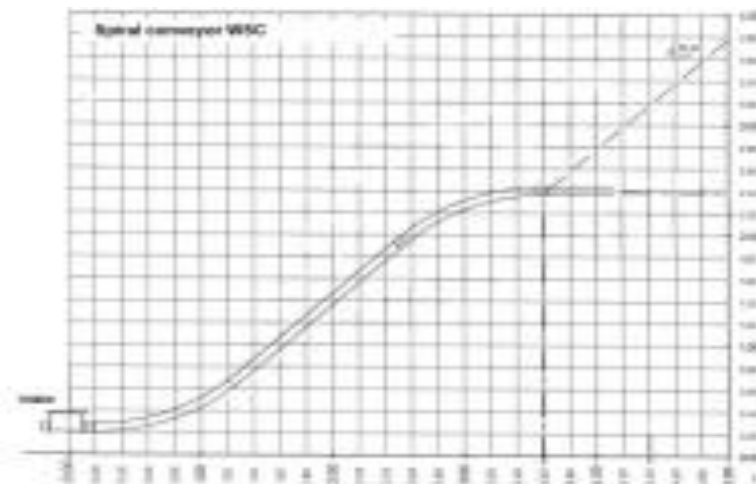
230100250	Intake boot	€ 1245
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230100260	Pipe	€/m 385
Weight	kg/m	0.6

230100270	Elbow	€ 185
Weight	kg	0.6



230100280	Outlet drop	€/m 366
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230100240, 230100230, 230100250, 230100260, 230100270, 230100220, 230100210

Bagging point 23

WATROMAT® Bagging point

Bagging point for dry sludge with minimum 80 % dried sludge, modular frames for bag volume 1 m3 (elevation 2 m3, 230600200), height adjustable hooks, receive sludge from dry sludge conveyor spiral (230400100)

Material SS304
Delivery 1 pc bagging point
Not included Dry sludge conveyor spiral 2304001000



	type	WLS1	WLS2	WLS3	WLS4	WLS5
230100300	Bagging point	€ 15500	€ 22903	€ 26630	€ 30280	€ 34124
Bag volume	m3	1	2	3	4	5
Height free below	mm			1400		
Length X	mm	1300	2600	3900	5200	6500
Width Y	mm			1300		
Height Z	mm			2140		
Weight	kg	150	400	500	600	1200

	type	WLS1E
230100310	Elevation bagging point	€ 3920
Bag volume	m3	2
Elevation	mm	800
Height free below	mm	2200
Weight	kg	24

Control cabinet bagging 20

WATROMAT® Control cabinet bagging

Control cabinet, execution as WATROMAT®-Master (M) or as Slave (S)-cabinet, master with Siemens touch panel MTP1200 Unified Comfort, slave without Touch Panel, Profinet-Bus, SPS Siemens S7-1512, IO System ET200SP, power distribution, switching and protective devices, command and signalling devices, wired and tested



- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz
- Power code 2: 3 x 480 V / 1 x 110 V / 60 Hz

Material Painted RAL9002
Delivery 1 pc cabinet
Not included

	type	WEL64WSC
200800900	Control cabinet bagging	€ 8454
Included collecting spiral and bagging conveyor	type	WSC
Length X	mm	600
Width Y	mm	800
Height Z	mm	2000
Weight	kg	30



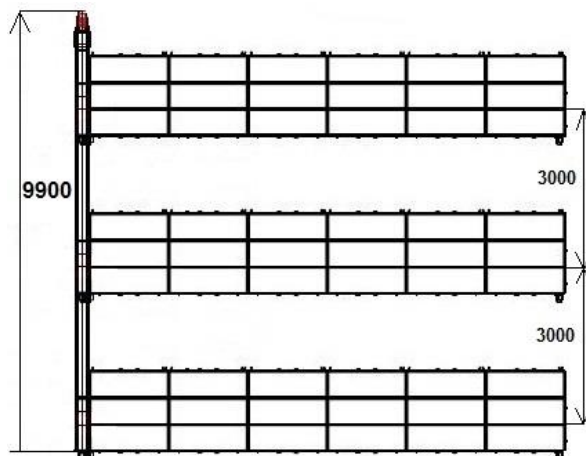
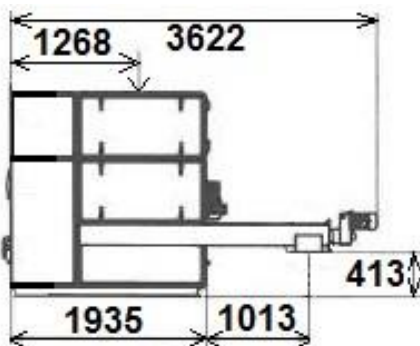
Collecting conveyor 23

WATROMAT® Collecting conveyor

Collecting conveyor for sludge with minimum 60 % dried solids, is installed under outlet of belt dryer (210100XXX), collect the sludge from the belt dryer and transport it to the increasing conveyor (210200XXX).

Material SS304
Delivery 1 pc collecting conveyor
Not included

	type	WSC2400	WSC6150	WSC9900	WSC13650
230200101	Collecting conveyor	€ 24546	€ 29685	€ 34586	€ 38586
230200102	SS314	€ 33137	€ 40075	€ 46691	€ 52091
Inlet connections	pcs	1	2	3	4
Electric power	kWh	1.1			
Capacity	m3/h	2			
Lenght	mm	2400	6150	9900	13650
Weight	kg	185	330	495	685

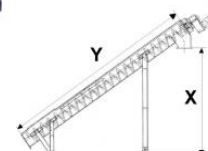


Increasing conveyor 23

WATROMAT® Increasing conveyor

Increasing conveyor, for sludge with minimum 60 % dried solids, transport sludge from collecting conveyor (230200101) to bagging conveyor (230500101), reversible conveyor (230500101) or conveyor with winch (230500111).

Material SS304
Delivery 1 pc dry increasing conveyor
Not included 2 pcs supports



	type	WSC4800/35	WSC5500/35	WSC6500/28	WSC8500/30
230200201	Increasing conveyor	€ 40350	€ 38650	€ 49400	€ 59650
230200202	SS314	€ 45400	€ 56400	€ 75400	€ 88400
Lenght Y	mm	4800	5500	6500	8500
Used for container (page 52)	type	1xWTC	2xWTC	1xWGM	2xWGM
Electric power	kWh	3			
Capacity	m3/h	2			
Increasing degree	°	28			
Height X	m	2.4	2.9	3.4	3.8
Weight	kg	450	580	710	850

Bagging conveyor 23

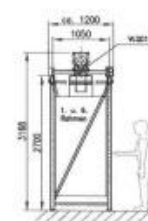
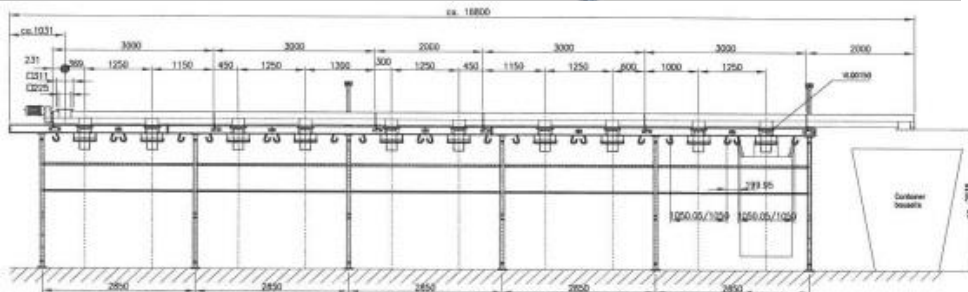
WATROMAT® Bagging conveyor

Bagging conveyor for dry sludge with minimum 60 % dried solids, transport sludge from increasing conveyor (230200111) to Big Bag's outlets, extra outlet for overflow, Big Bag's outlets with flange connection, shut-off pneumatically valve with switch, compressed air supply >6 Bar, inlet pipes with sack holder and clamping device, option: one-sided operating gangway with stair, railing and light grid cover

Material Steel painted RAL7035, frame hot galvanized
Delivery 1 pc bagging conveyor unit
Not included One sided operation gangway with stair, railing and light grid cover



	type	WSC5500WLS2	WSC8500WLS4	WSC11500WLS6	WSC14500WLS8	WSC17500WLS10
230300100	Bagging conveyor	€ 35500	43903	48630	53280	58124
Outlets	Big Bag	2	4	6	8	10
Bag volume max.	m3	2x2	4x2	6x2	8x2	10x2
Height free below	m			1.4		
Length conveyor	m	5	8	11	14	17
Electric power	kWh			2.2		
Capacity	m3/h			10		
Length bagging frame (without extra outlet)	m	2.9	5.7	8.6	11.4	14.25
Width (without gangway)	m			1.1		
Height (inlet connection)	mm			3.2		
Weight	kg	340	480	620	760	900



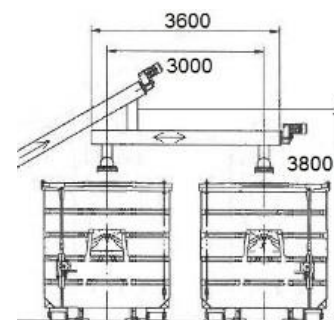
Reversible conveyor 23

WATROMAT® Reversible conveyor

Reversible conveyor for sludge with minimum 60 % dried solids, transport sludge from increasing conveyor (230200111) to conveyor with winch (230500111), fixed at supporting console from conveyor with winch (230500100), motor for forward and backward transport.

Material SS304
Delivery 1 pc reversible conveyor
Not included Container cover, container guides (page 52)

	type	WSC3600	WSC6600
230500101	Reversible conveyor	€ 45400	56400
Container type WGM (page 52)	pcs	2xWGM	3xWGM
Electric power	kWh		0.75
Capacity	m3/h		2
Length	mm	3600	6600
Weight	kg	460	500

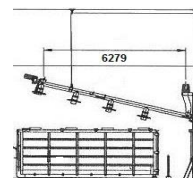
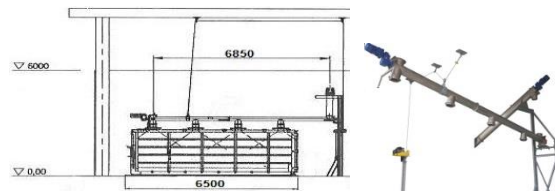


Conveyor with winch 23

WATROMAT® Conveyor with winch

Conveyor for sludge with minimum 60 % dried solids, winch (mounted on the wall) for lifting the conveyor 6-25 degree, roll off container for hook vehicle, transport sludge from increasing conveyor (230200111) or reversible conveyor (230500101) to roll off container and distribute the sludge evenly through outlets over the entire length of the container, full flow sensor, fixed at supporting console.

- Material** SS304, supporting console hot galvanized
Delivery 1 pc distribution conveyor
 1 pc supporting console
 1 pc winch
Not included Container cover (page 52), container guides, winch installation



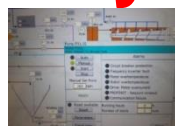
	type	WSC3850/6-25	WSC4850/6-25	WSC5850/6-25	WSC6850/6-25
230500111	Conveyor with winch	€ 39350	62450	75400	88400
Outlet	pce	1	2	3	4
Used for container (type page 52)	type	WTC	WGM15	WGM20	WGM30
Length Y	mm	3850	4850	5850	6850
Electric power	kWh			0.75	
Capacity	m3/h			2	
Increasing degree (winch)	°			6-25	
Weight	kg	450	580	710	850



Control cabinet conveyor loading 11

WATROMAT® Control cabinet conveyor loading

Control cabinet, execution as WATROMAT® master (M) or as slave (S), master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, switching and protective devices, command and signaling devices, wired and tested



- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz
- Power code 2: 3 x 480 V / 1 x 110 V / 60 Hz

- Material** WEL86 Polyester, WEL208 painted RAL9002
Delivery 1 pc cabinet
Not included:

	type	WEL86WLS	WEL86WSC1	WEL86WLS2
230500900	Control cabinet conveyor loading	€ 14658	16985	18250
Length X	mm		600	
Width Y	mm		300	
Weight	kg	30	35	40



Silo 23

WATROMAT® Silo

Silo system for dry sludge, sludge with minimum 80% dry solids, for direct loading onto trucks or tank vehicles, silo can be driven under, consisting of silo cell on steel platform, silo cell outer jacket insulation, loading device with cellular wheel lock and loading set, ideal loading conveyor (angle bucket elevator).

Material Painted RAL9002
Delivery 1 pc silo
Not included

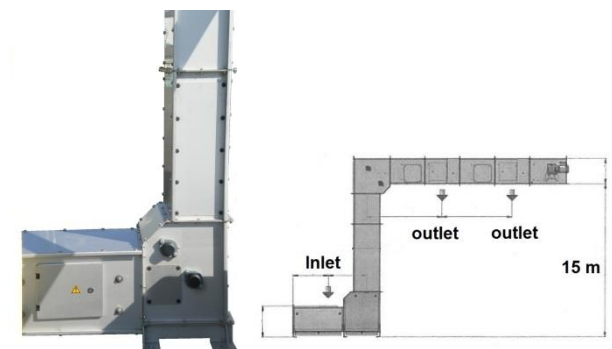


	type	WSI90
230800100	Silo	€ 195820
Volume	m3	90
Diameter silo cell	m	3.8
Height	m	21
Weight empty	t	18
Weight full	t	100

WATROMAT® Pendulum bucket conveyor

Pendulum bucket conveyor for dry sludge, sludge with minimum 80% dry solids, for vertical loading of silo, the swing buckets are driven with rubber chain, no dust explosion risks, Z-shape.

Material Buckets Polyamide, housing SS304
Delivery 1 pc pendulum bucket conveyor
Not included



	type	WPE15
230800200	Pendulum bucket conveyor	€ 139645
Capacity	m3/h	2
Electric power	kW	0.75
Capacity	m3/h	2
Height	m	15
Weight empty	t	2
Weight full	t	4

Control cabinet silo 23

WATROMAT® Control cabinet silo

Control cabinet, execution as WATROMAT®-Master (M) or as Slave (S)-cabinet, master with Touch Panel KTP900, slave without Touch Panel, Profinet-Bus, SPS Siemens S7-1512, IO System ET200SP, power distribution, switching and protective devices, command and signaling devices, wired and tested

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz
- Power code 2: 3 x 480 V / 1 x 110 V / 60 Hz

Material Polyester
Delivery 1 pc cabinet
Not included

	type	WEL64S
230800900	Control cabinet silo	€ 21256
Length X	mm	300
Width Y	mm	400
Height Z	mm	600
Weight	kg	41



Container-dryer

Page Part



50

30



52

31



53

32



54

33

Page Part

Container-dryer

50

30

Drying container

52

31

Air duct

53

32

Filter, heat exchanger

54

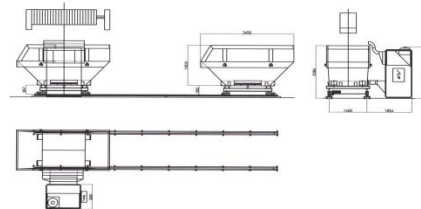
33

Container-dryer 30

WATROMAT® Container-dryer

Container-dryer for filter cake sludge from plate and frame filter presses, inlet minimum 25 % dried solids, outlet 90 % dried solids, drying container stand below filter press, press and container centred, steel cables in the fall channel, container maximum 1 m longer than effective filter press chamber length, cake distribution in container homogeneous with flat surface, drying temperature 30 °C/86 °F, specific electric power consumption 333 W/kg H₂O, noise level <85dBA, sludge pH value 6.0-9.0.

Material SS304
Delivery 1 pc dry air generator with control cabinet, 1 pc dry air duct, 1 pc wet air duct
Not included Drying container

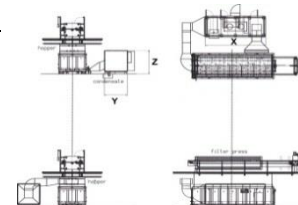


	type	WCD04	WCD08
300100100	Container-dryer	€ 80845	111978
Water removal at 10-35°C environment	t/day	0.4	0.8
Volume drying container (recommended)	m ³	6-30	
Electric power	kWh	8	13
Cooling water >3 Bar (24°C)	m ³ /h	0.2	0.3
Drying container volume	m ³	6-30	
Length dry air generator	mm	1290	1910
Width dry air generator	mm	980	
Height dry air generator	mm	1910	
Weight	t	0.8	1.4

WATROMAT® Container-dryer

Container-dryer for filter cake sludge from plate and frame filter presses, inlet minimum 25 % dried solids, outlet 90 % dried solids, drying container stand below filter press, press and container centred, steel cables in the fall channel, container maximum 1 m longer than effective filter press chamber length, cake distribution in container homogeneous with flat surface, drying temperature 30 °C/86 °F, specific electric power consumption 333 W/kg H₂O, noise level <85dBA sludge pH value 6.0-9.0.

Material SS304
Delivery 1 pc dry air generator, 1 pc dry air duct, 1 pc wet air duct
1 pc control cabinet
Not included Drying container



	type	WCD15	WCD30	WCD45	WCD60
300100200	Container-dryer	€ 141027	164321	197998	221014
Water removal at 10-35°C environment	t/day	1.5	3	4.5	6
Volume drying container	m ³	9-30		15-30	
Electric power	kWh	20	40	60	80
Cooling water >3 Bar (24°C)	m ³ /h	0.5	1	1.5	2
Drying container volume	m ³		9-30		
Length dry air generator	mm	1910	3770	5630	7490
Width dry air generator	m		1240		
Height dry air generator	m		1910		
Weight empty	t	2.9	3.1	3.6	3.8

WATROMAT® Container-dryer

Container-dryer for filter cake sludge from plate and frame filter presses, inlet minimum 25 % dried solids, outlet 90 % dried solids, drying container stand below filter press, press and container centred, steel cables in the fall channel, container maximum 1 m longer than effective filter press chamber length, cake distribution in container homogeneous with flat surface, drying temperature 30 °C/86 °F, specific electric power consumption 333 W/kg H₂O, noise level <85dBA, sludge pH value 6.0-9.0.

Material SS304
Delivery 1 pc dry air generator, 1 pc dry air duct, 1 pc wet air duct
1 pc control cabinet
Not included Drying container



	type	WCD75	WCD90
300100300	Container-dryer	€ 258971	304874
Water removal at 10-35°C environment	t/day	7.5	9
Volume drying container	m ³	25-30	
Electric power	kWh	100	120
Cooling water >3Bar (24 °C)	m ³ /h	2.5	3
Drying container volume	m ³	15-30	20-30
Length dry air generator (X)	mm	9450	11335
Width dry air generator (Y)	mm	1240	
Height dry air generator (Z)	mm	1910	
Weight empty	t	4.1	4.8

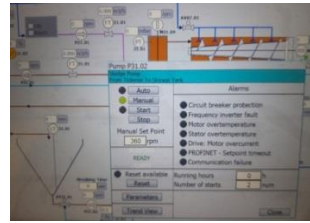
Control cabinet container-dryer 30

WATROMAT® Control cabinet container-dryer

Control cabinet, execution as WATROMAT®-Master (M) or as Slave (S)-cabinet, master with Siemens touch panel MTP1200 Unified Comfort, slave without Touch Panel, Profinet-Bus, SPS Siemens S7-1512, IO System ET200SP, power distribution, switching and protective devices, command and signalling devices, wired and tested

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz
- Power code 2: 3 x 480 V / 1 x 110 V / 60 Hz

Material Polyester
Delivery 1 pc cabinet
Not included



	type	WEL64WCD04	WEL86WCD08
300100900	Control cabinet container-dryer	€ 3887	10342
Length X	mm	300	
Width Y	mm	400	600
Height Z	mm	600	800
Weight	kg	30	40



	type	WEL208WCD15	WEL208WCD30	WEL208WCD45	WEL208WCD60
300100900	Control cabinet container-dryer	€ 13750	17750	19483	26356
Length X	mm	300			
Width Y	mm	600			
Height Z	mm	800			
Weight	kg	85			



	type	WEL208WCD75	WEL208WCD90	WEL208WCD105	WEL208WCD120
300100900	Control cabinet container-dryer	€ 18537	19085	19642	20202
Length X	mm	400			
Width Y	mm	800			
Height Z	mm	2100			
Weight	kg	120	130	140	150



Drying container 31

WATROMAT® Drying container

Drying container to use with container dryer 300100100, move and discharge with truck.

Material Painted RAL3020
Delivery 1 pc drying container
Not included Cover 310200110 and cover 310200110



	type	WTC06	WTC09	WGM15	WGM20	WGM30
310200100	Drying container	€ 7841	8540	9172	9832	10798
Volume	m3	6	9	15	20	30
Capacity	t	3-5	4-7	5-10	8-15	12-20
Length X	m	3.5		4.5	5.7	6.7
Width Y	m	1.6		2	2	2
Height Z	m	1.6	2	2	2.2	2.2
Weight	t	0.8	1.0	1.8	2.6	3.1



	type	WTC06	WTC09	WGM15	WGM20	WGM30
310200110	Cover for container	€ 1804	1978	2072	2172	2370
Length X	m	3.5		4.5	5.7	6.7
Width Y	m	1.6		2	2	2
Weight Z	kg	16	20	36	48	62



	type	WTC06	WTC09	WGM15	WGM20	WGM30
310200120	Cover blow in opening	€ 686	686	865	1056	1265
Length X	m	1		2	3	4
Weight	kg	25		38	45	55



WATROMAT® Car

Car for moving container 310200100 on rails with electric motor, remote control

Material Painted RAL3020
Delivery 1 pc car
Not included

	type	WTW0WTC	WTW90WTC
310200200	Electric car	€ 7453	8749
Track width	mm	1400	2000
Electric power	kWh	0.35	
Length X	mm	2100	1500
Width Y	mm	1500	2100
Height Z	mm	360	
Weight	t	0.33	0.38



Air duct 32

WATROMAT® Dry air duct

Dry air duct, connect drying container with dry air generator.

Material Galvanized
Delivery 1 pc air duct
Not included

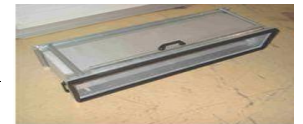


		type	TLK04WTC06	TLK08WTC06	TLK15WTC09	TLK30WTC09	TLK45WTC09	TLK60WTC09
320100100	Dry air duct WTC	€	1997	2162	2327	3327	4492	5492
Container	type		WTC06		WTC09			
Length X	mm		1000	1500	2000	2500		
Width Y	mm				670			
Height Z	mm				520			
Weight	kg		20	23	23	27	27	27

		type	TLK75WGM20	TLK90WGM20
320100100	Dry air duct WGM	€	5003	7038
Length X	m		1	2
Width Y	mm		400	800
Height Z	mm		400	
Weight	t		65	78



		type	TLK15	TLK30	TLK45	TLK60
320100900	Cuff	€	1084	1303	1577	2327
Air duct	Type					
Length X	m		1	1.5	2	3
Width Y	m				0.4	
Height Z	m				0.25	
Weight	kg		12	14	18	24



		type	€
320100900	Sealing	€	282
Length X	m		2
Weight	kg		41



WATROMAT® Wet air duct

Wet air duct, connect drying container with dry air generator.

Material Galvanized
Delivery 1 pc air duct
Not included



		type	RLK04WTC06	RLK08WTC06	RLK15WTC09	RLK30WTC09	RLK45WTC09	RLK60WTC09
320200100	Wet air duct WTC	€	2319	2938	3570	4227	4947	5947
Container	type		WTC06		WTC09			
Length X	m		1.1	1.5	2			
Width Y	m				0.7			
Height Z	m				0.9			
Weight	kg		20	25	28	27	32	32

		type	RLK75WGM15	RLK90WGM20
320200100	Wet air duct WGM	€	7003	10038
Length X	m		10	12
Width Y	m		0.5	0.6
Height Z	m		0.5	0.6
Weight	t		0.28	0.34



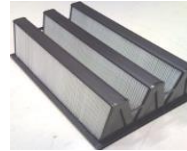
Filter 33

WATROMAT® Filter

Compact filter, prefilter, mounting frame for dry air generator 330100XXX, TLG04 and TLG08: 1 pc, TLG15: 2 pcs, TLG30: 4 pcs, TLG45: 6 pcs, TLG60: 8 pcs, TLG75: 10 pcs, TLG90: 12 pcs, TLG105: 14 pcs, TLG120: 16 pcs.

Material Polyester
Delivery 1 pc
Not included Prefilter and mounting frame 330200XXX

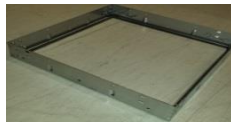
		type	869.592.292 (after 2016)	892.592.292 (before 2015)
330200100	Compact filter	€	576	612
Length X	mm		869	897
Width Y	mm		592	592
Height Z	mm		292	380
Weight	kg		7	7



		type	869.592.20
330200200	Prefilter	€	828
Length X	mm		869
Width Y	mm		592
Height Z	mm		20
Weight	kg		3



		type	887.609.70
330200300	Mounting frame	€	460
Length X	mm		887
Width Y	mm		609
Height Z	mm		70
Weight	kg		2



Heat exchanger 33

WATROMAT® Heat exchanger

Heat exchanger and cooling compressor for container dryer 300100XXX. Evaporator for cooling and condenser for heating of drying air cycle.

Material SS304
Delivery 1 pc
Not included

		type	EVAP04	EVAP08	EVAP15
330300101	Evaporator (cooling)	€	7071	9890	12450
330300102	SS314	€	8319	11635	14647
Belt dryer	type		WBD04	WBD08	WBD15-240DD
Length X	mm		975	1680	1810
Width Y	mm		310	310	300
Height Z	mm		540	420	620
Weight	kg		54	71	90



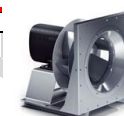
		type	COND04	COND08	COND15
330300201	Condenser (heating)	€	7677	11828	14162
330300202	SS314	€	9032	15092	21162
Belt dryer	type		WBD04	WBD08	WBD15-240DD
Length X	mm		975	1680	1730
Width Y	mm		370	360	350
Height Z	mm		540	420	620
Weight	kg		69	85	113



		type	COMP04	COMP08	COMP15
330300300	Compressor	€	4'896	9456	13'542
Belt dryer	type		WBD04	WBD08	WBD15-240DD



		type	Vent04	Vent08	Vent15
330300400	Ventilator	€	4256	5671	6807
Belt dryer	type		WBD04	WBD08	4'265



Skip-dryer

page Part



56

40



59

41



60

42



61

43

page Part

Skip-dryer

56

40

Drying skip

59

41

Air duct

60

42

Big Bag hopper

61

43

Skip-dryer 40

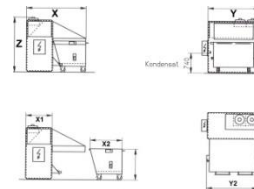


WATROMAT® Skip-dryer

Skip-dryer for filter cake sludge from plate and frame filter presses, sludge from industrial or municipal waste water treatment plants, inlet minimum 30 % dried solids, outlet 90 % dried solids, drying container ideally filled up under the filter press, press and container centred, steel cables in the fall channel, cake distribution in container homogeneous with flat surface, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, noise level <75dBA, heat exchangers copper, sludge pH value 6.0-9.0.

Material SS304
Delivery 1 pc dry air generator with control cabinet, 1 pc dry air duct, 1 pc wet air duct
Not included Drying skip

	type	WSD01	WSD04	WSD08
400100100	Skip-dryer	€ 28970	46200	64402
Water removal at 10-35 °C environment	t/day	0.1	0.4	0.8
Electric power	kWh	2.6	7.9	12.9
Volume drying skip	Liter	500	1320-1700	1320-1700
Length X	mm	1691		2225
Width Y	mm	980	1918	2416
Height Z	mm	1490		2035
Weight	t	0.4	0.6	0.8

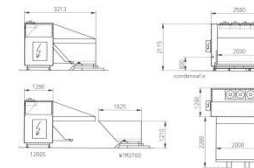


WATROMAT® Skip-dryer

Skip-dryer for filter cake sludge from plate and frame filter presses, sludge from industrial or municipal waste water treatment plants, inlet minimum 30 % dried solids, outlet 90 % dried solids, drying container ideally filled up under the filter press, press and container centred, steel cables in the fall channel, cake distribution in container homogeneous with flat surface, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, noise level <75dBA, heat exchanger copper, sludge pH value 6.0-9.0.

Material SS304
Delivery 1 pc dry air generator with control cabinet, 1 pc dry air duct, 1 pc wet air duct
Not included Drying skip

	type	WSD12	WSD16	WSD20	WSD24
410100200	Skip-dryer	€ 77291	88438	105966	116974
Water removal at 10-35 °C environment	t/day	1.2	1.6	2	2.4
Electric power	kWh	16	21	26	31
Volume drying skip	Liter		1700-3700		3700
Length X	mm		3213		3780
Width Y	mm		2560		3800
Height Z	mm		2115		2115
Weight	t	1.5	1.6	2.1	2.2



Control cabinet skip-dryer 40

WATROMAT® Control cabinet skip-dryer

Control cabinet, execution as WATROMAT®-cabinet, SPS Sirius, power distribution, switching and protective devices, command and signalling devices, wired and tested

- Power code 1: 3x400V/1x230V/50Hz (3 phases, neutral, earth)
- Power code 2: 3x480V (3 phases, earth), 1x110V/60Hz (phase, neutral, earth)

Material Polyester
Delivery 1 pc cabinet
Not included

	type	WEL64WSD01	WEL64WSD04	WEL64WSD08	WEL86WSD16	WEL86WSD24
400100900	Control cabinet skip-dryer	€ 7330	7960	9370	11720	13730
Skyp dryer	type	WSD01	WSD02	WSD08	WSD12-16	WSD20-24
Length X	m		400		600	
Width Y	m		300		300	
Height Z	m		600		800	
Weight	kg	18	28	42	52	66



	type	MTR122
400100910	Temperatur controller	€ 434



Filter 40

WATROMAT® Filter

Filter for skip dryer 400100100, WSD01: 1 pc, WSD04: 2 pcs, WSD08: 3 pcs, WSD12: 4 pcs, WSD16: 4 pcs, WSD20: 5 pcs, WSD24: 5 pcs.

Material Polyester
Delivery 1 pc
Not included Filter mounting frame 400200110

		type	490.490.47
400200100	Filter	€	115
Length X	mm		490
Width Y	mm		490
Height Z	mm		47
Weight	kg		1.1



WATROMAT® Filter mounting frame

Filter mounting frame for skip dryer 400100100, WSD01: 1 pc, WSD04: 2 pcs, WSD08: 3 pcs, WSD12: 4 pcs, WSD16: 4 pcs, WSD20: 5 pcs, WSD24: 5 pcs.

Material SS304
Delivery 1 pc
Not included Filter 400200100

		type	507.507.70
400200110	Filter mounting frame	€	186
Length X	mm		507
Width Y	mm		507
Height Z	mm		70
Weight	kg		0.2



Heat exchanger 40

WATROMAT® Heat exchanger

Heat exchanger for dry air generator (heat pump), evaporator (cooling), condenser (heating) and compressor for skip dryer 400100100

Material Frame galvanized, lamella Epoxy, tubes and headers copper
Delivery 1 pc
Not included

		type	EVAP01	EVAP04	EVAP08	EVAP15	EVAP24
400300100	Evaporator	€	1862	2648	3421	5879	7235
400300101	SS304	€	3650	7071	9890	12450	14960
400300102	SS316	€	4150	8319	11635	14647	18560
Skip dryer	type		WSD01	WSD04	WSD08	WSD12-16	WSD20-24
Length X	m		620	975	1680	1810	3120
Width Y	m		360	310	310	300	540
Height Z	m		280	540	420	620	380
Weight	kg		30	54	71	90	140



		type	COND01	COND04	COND08	COND15	COND24
400300200	Condenser	€	1986	2856	4276	7054	8682
400300201	SS304	€	3856	7677	11828	14162	15150
400300202	SS316	€	4350	9032	15092	19050	21162
Skip dryer	type		WSD01	WSD04	WSD08	WSD12-16	WSD20-24
Length X	m		620	975	1680	1730	3120
Width Y	m		360	370	360	350	540
Height Z	m		280	540	420	620	380
Weight	kg		45	69	85	113	180



		type	EXTC01	EXTC04	EXTC08	EXTC15	EXTC24
400300300	Air cooled external condenser	€	1345	1868	2965	4980	6780
Skip dryer	type		WSD01	WSD04	WSD08	WSD12-16	WSD20-24
Electric power	kWh		0.1	0.15	0.25	0.45	0.90
Length X	m		280	920	1620	2120	3120
Width Y	m		280	540	420	540	540
Height Z	m		280	250	310	280	380
Weight	kg		15	99	125	155	180

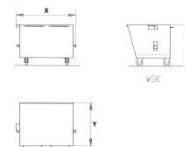
		type	COMP01	COMP04	COMP08	COMP16	COMP24
400300400	Compressor	€	3150	4896	9456	13542	2x13542
Slip dryer	type		WBD01	WBD04	WSD08	WSD12-16	WSD20-24

Drying skip 41

WATROMAT® Drying skip

Drying skip to use with skip-dryer, removable perforated base sieve, opening injection for dried air duct, push to handle, tilting mechanism, 2 crane lifting eyes, is emptied with fork lift using the tilting traverse

Material Hot galvanised, castors Polyamide (PA)
Delivery 1 pc drying skip with 4 pcs castors
Not included



		type	WSK500	WSK1320	WSK1700
410100100	Drying skip	€	2960	6228	7380
410100101	SS304	€	5792	11438	13908
Skip dryer	Type		WSD01	WSD04	WSD08-16
Volume	liter		500	1320	1700
Effectiv load	kg		400	1000	1500
Length X	mm		1000	1325	1325
Width Y	mm		980	1680	2180
Height Z	mm		1054	1154	1154
Weight	kg		135	250	300

WATROMAT® Tilting traverse

Tilting traverse with third leg to use for forklift and drying skip, cable operated from fork lift driver's seat, can be secured to prevent slipping and unintentional emptying

Material Painted RAL9035
Delivery 1 pc tilting traverse, 1 pc third leg
Not included

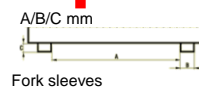
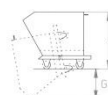
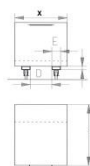


		type	WST500	WST1320	WST1700
410100150	Tilting traverse	€	2672	3686	4142
Distance between fork pockets	mm		250	450	590
Width of fork pockets	mm			200	
Height of fork pockets	mm			80	
Weight	kg		80	145	173

WATROMAT® Drying skip

Drying skip to use with skip-dryer 400100100, removable perforated base sieve, opening injection for dried air duct, push to handle, fork sleeves 200x60 mm, tilting mechanism, cable operated from fork lift driver's seat, discharge with fork lift (3 t)

Material Hot galvanised, castors Polyamide (PA)
Delivery 1 pc drying skip with 4 pcs castors
Not included



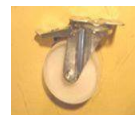
Fork sleeves



		type	WKB420	WKB800	WKB1200
410100200	Drying skip	€	3564	6580	9885
410100201	SS304	€	5524	10199	15321
Volume	liter		420	800	1200
Effectiv load	kg		320	530	800
Fork sleeves (A)	mm		200	495	640
Length X	mm		1440		1640
Width Y	mm		700		1280
Height Z	mm		904	1004	1304
Weight	kg		205	256	265

410100300 Castor

		type	Role fix	Swivel role
410100300	Castor	€	142	242
Effectiv load	kg		450	450
Lock backwards	type		No	Yes
Height	mm		224	
Weight	kg		5	6



410100310 Castor high load

		type	Role fix	Swivel role
410100310	Castor high load	€	285	352
Effectiv load	kg		800	590
Lock backwards	type		No	Yes
Height	mm		224	
Weight	kg		5	6



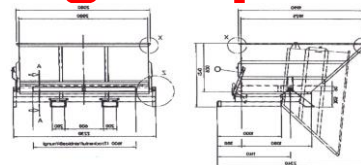
Drying skip 41

Drying skip 41

WATROMAT® Drying skip

Drying skip to use with skip dryer, transported and discharged with forklift (5 t)

Material Hot galvanised
Delivery 1 pc drying skip
Not included



	type	WTM2700	WTM3700
410200100	Drying skip	€ 10542	€ 12907
410200101	SS304	€ 15813	€ 19360
Volume	liter	2700	3700
Usefull weight	t	2.1	3
Length X	mm		2340
Width Y	mm		2230
Height Z	mm	1210	1470
Weight	t	2.1	2.6

	type	WTM
400200102	Tipping brake	€ 1860



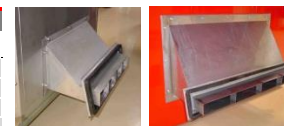
Dry air duct 42

WATROMAT® Dry air duct

Dry air duct, connect skip-dryer with drying containers.

Material SS304
Delivery 1 pc dry air duct
Not included

	type	TLK01WSK500	TLK04WSK1320	TLK08WSK1700	TLK12WSK1700
420100100	Dry air duct	€ 1969	€ 2726	€ 2964	€ 3464
Length X	mm	610	1100		1630
Width Y	mm	320	380		380
Height Z	mm	300	520		530
Weight	kg	8	18	25	26



	type	TLK12WTM2700	TLK16WTM2700	TLK20WTM3700	TLK24WTM3700
420100100	Dry air duct	€ 3615	€ 3615	€ 3815	€ 3815
Length X	m			1710	
Width Y	mm			1370	
Height Z	mm			700	
Weight	kg	35	42	48	54



	type	Seal
420100110	Dry air duct seal	€ 282
Length X	m	2
Weight	kg	0.4



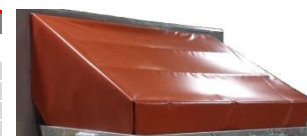
Wet air duct 42

WATROMAT® Wet air duct

Wet air duct, guide wet air from drying container 400100100 or 410110100 back to skip-dryer 400100100.

Material PVC (frame SS304)
Delivery 1 pc wet air duct
Not included

	type	RLK01WSK500	RLK04WSK1320	RLK08WSK1700	RLK12WSK1700
420200100	Wet air duct	€ 1895	€ 2243	€ 3224	€ 3445
Length X	mm	800	1530	2030	2340
Width Y	mm	1080	1280	1280	1280
Height Z	mm	500	800	800	800
Weight	kg	6	9	15	19



	type	RLK12WTM2700	RLK16WTM2700	RLK20WTM3700	RLK24WTM3700
420200100	Wet air duct	€ 3655	€ 3665	€ 3955	€ 3955
Length X	mm	800	1530	2030	2340
Width Y	mm	1080	1280	1280	1280
Height Z	mm	500	800	800	800
Weight	kg	24	29	34	39



Big-Bag hopper 43

WATROMAT® Big-Bag hopper

Big Bag hopper to discharge dry sludge into Big Bag's, sludge with minimum 70 % dried solids, hopper made of steel sheet with all-round, reinforced edging, sturdy frame with full-length fork sleeves, with support legs, with 4 hooks under the fork sleeves.

Material Painted RAL3020
Delivery 1 pc filling hopper
Not included

	type	WHO1
430300100	Big Bag hopper	€ 4787
Ground lee way	mm	1190
Length X	mm	1980
Width Y	mm	980
Height Z	mm	2050
Hopper opening top	mm	1875x850
Hopper opening bottom	mm	700x500
Weight	kg	221



Transport, Erection Commissioning

page Part



57

50



59

51



63

52



64

53

page Part

Land transport

64

50

Ship transport

66

51

Travel costs

70

52

Erection

**Commissioning
Supervising**

71

53

Land transport 100-1000 km

50

Part	Country											
	Destination	km	100	200	300	400	500	600	700	800	900	1000
		Days	1	2	3	3	3	4	4	4	5	5
11	Screw press	WSP05+WMT	2200	2420	2640	2860	3080	3300	3520	3740	3960	4180
		WSP15+WMT	2904	3194	3485	3775	4066	4356	4646	4937	5227	5518
		WSP25+WMT	3630	3993	4356	4719	5082	5445	5808	6171	6534	6897
		WSP50+WMT	4138	4552	4966	5380	5793	6207	6621	7035	7449	7863
		WSP75+WMT	4598	5058	5518	5977	6437	6897	7357	7817	8276	8736
11	Platform press	WSP05	750	825	900	975	1050	1125	1200	1275	1350	1425
		WSP15	1256	1382	1508	1633	1759	1884	2010	2136	2261	2387
		WSP25	1565	1721	1878	2034	2191	2347	2504	2660	2817	2973
		WSP50	1700	1870	2040	2210	2380	2550	2720	2890	3060	3230
		WSP75	1828	2010	2193	2376	2559	2741	2924	3107	3290	3472
		2xWSP05	1650	1815	1980	2145	2310	2475	2640	2805	2970	3135
		2xWSP15	2094	2303	2513	2722	2931	3141	3350	3559	3769	3978
		2xWSP25	2555	2811	3066	3322	3577	3833	4088	4344	4599	4855
		2xWSP50	2800	3080	3360	3640	3920	4200	4480	4760	5040	5320
2xWSP75	3010	3311	3612	3913	4214	4515	4816	5117	5418	5719		
12	Polymer unit	WPL	140	154	168	182	196	210	224	238	252	266
		WPP	462	508	554	601	647	693	739	785	832	878
13	Thickener	WTH	4939	5433	5927	6421	6915	7409	7903	8397	8891	9384
21	Belt dryer	WBD04-08	896	986	1075	1165	1255	1344	1434	1523	1613	1703
		WBD15	1113	1225	1336	1447	1558	1670	1781	1892	2004	2115
		WBD30	1700	1870	2040	2210	2380	2550	2720	2890	3060	3230
		WBD45	2277	2505	2732	2960	3188	3416	3643	3871	4099	4326
		WBD60	3198	3518	3838	4157	4477	4797	5117	5436	5756	6076
		WBD75	4326	4759	5192	5624	6057	6489	6922	7355	7787	8220
		WBD90	5032	5535	6039	6542	7045	7548	8051	8555	9058	9561
		WBD105	5849	6434	7019	7604	8189	8774	9359	9944	10529	11114
		WBD120	6818	7500	8182	8864	9546	10228	10909	11591	12273	12955
		WBD120D	6927	7620	8313	9006	9698	10391	11084	11777	12469	13162
		WBD150D	8330	9163	9996	10829	11663	12496	13329	14162	14995	15828
		WBD180D	10260	11285	12311	13337	14363	15389	16415	17441	18467	19493
		WBD210D	11926	13118	14311	15503	16696	17888	19081	20274	21466	22659
WBD240D	13504	14854	16205	17555	18906	20256	21606	22957	24307	25658		
21	Platform dryer	WBD120D	2250	2475	2700	2925	3150	3375	3600	3825	4050	4275
		WBD150D	2588	2846	3105	3364	3623	3881	4140	4399	4658	4916
		WBD180D	3105	3416	3726	4037	4347	4658	4968	5279	5589	5900
		WBD210D	3375	3713	4050	4388	4725	5063	5400	5738	6075	6413
		WBD240D	3825	4208	4590	4973	5355	5738	6120	6503	6885	7268
22	Bunker	WBU00X	1618	1780	1942	2104	2266	2428	2589	2751	2913	3075
		WBU5	2366	2603	2840	3076	3313	3549	3786	4023	4259	4496
		WBU10-25	4385	4823	5262	5700	6139	6577	7016	7454	7893	8331
		WBU35	4722	5194	5666	6138	6610	7082	7555	8027	8499	8971
23	Bagging point	WLS1-2	957	1052	1148	1244	1339	1435	1531	1626	1722	1818
		WLS3-5	1913	2105	2296	2487	2679	2870	3061	3253	3444	3635
23	Conveyor	WSC	957	1052	1148	1244	1339	1435	1531	1626	1722	1818
23	Silo	WSI	5677	6244	6812	7380	7947	8515	9083	9650	10218	10786
30	Container dryer	WCD04-08	896	986	1075	1165	1255	1344	1434	1523	1613	1703
		WCD15	1113	1225	1336	1447	1558	1670	1781	1892	2004	2115
		WCD30	1700	1870	2040	2210	2380	2550	2720	2890	3060	3230
		WCD48-60	2277	2505	2732	2960	3188	3416	3643	3871	4099	4326
		WCD90C	3198	3518	3838	4157	4477	4797	5117	5436	5756	6076
31	Drying container	WTC	1454	1600	1745	1890	2036	2181	2327	2472	2617	2763
		WGM	2110	2321	2532	2742	2953	3164	3375	3586	3797	4008
40	Skip-dryer	WSD01	260	286	312	338	364	390	416	442	468	494
		WSD04-08	980	1078	1176	1274	1372	1470	1568	1666	1764	1862
		WSD12-16	1119	1231	1343	1455	1567	1678	1790	1902	2014	2126
		WSD20-24	2060	2266	2472	2678	2884	3090	3296	3502	3708	3914
41	Drying skip	WSK500	293	323	352	381	411	440	469	499	528	558
		WSK1320	488	537	586	634	683	732	781	830	879	927
		WSK1700	553	608	664	719	774	830	885	940	996	1051
		WTM2700	1051	1156	1262	1367	1472	1577	1682	1787	1892	1997
		WTM3700	1277	1405	1533	1660	1788	1916	2043	2171	2299	2427
43	Big Bag hopper	WHO	619	681	743	805	867	929	990	1052	1114	1176

Land transport 1200-3000 km

50

Part	Country											
	Destination	km	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
		Days	5	6	6	7	7	8	8	9	9	10
11	Screw press	WSP05+WMT	4400	4620	4840	5060	5280	5500	5720	5940	6160	6380
		WSP15+WMT	5808	6098	6389	6679	6970	7260	7550	7841	8131	8422
		WSP25+WMT	7260	7623	7986	8349	8712	9075	9438	9801	10164	10527
		WSP50+WMT	8276	8690	9104	9518	9932	10346	10759	11173	11587	12001
		WSP75+WMT	9196	9656	10116	10575	11035	11495	11955	12415	12874	13334
11	Platform press	WSP05	1500	1575	1650	1725	1800	1875	1950	2025	2100	2175
		WSP15	2513	2638	2764	2889	3015	3141	3266	3392	3518	3643
		WSP25	3130	3286	3443	3599	3756	3912	4069	4225	4382	4538
		WSP50	3400	3570	3740	3910	4080	4250	4420	4590	4760	4930
		WSP75	3655	3838	4021	4203	4386	4569	4752	4934	5117	5300
		2xWSP05	3300	3465	3630	3795	3960	4125	4290	4455	4620	4785
		2xWSP15	4188	4397	4606	4816	5025	5234	5444	5653	5863	6072
		2xWSP25	5110	5366	5621	5877	6132	6388	6643	6899	7154	7410
		2xWSP50	5600	5880	6160	6440	6720	7000	7280	7560	7840	8120
		2xWSP75	6020	6321	6622	6923	7224	7525	7826	8127	8428	8729
12	Polymer unit	WPL	280	294	308	322	336	350	364	378	392	406
		WPP	924	970	1016	1063	1109	1155	1201	1247	1294	1340
13	Thickener	WTH	9878	10372	10866	11360	11854	12348	12842	13336	13830	14324
21	Belt dryer	WBD04-08	1792	1882	1971	2061	2151	2240	2330	2419	2509	2599
		WBD15	2226	2338	2449	2560	2672	2783	2894	3006	3117	3228
		WBD30	3400	3570	3740	3910	4080	4250	4420	4590	4760	4930
		WBD45	4554	4782	5009	5237	5465	5693	5920	6148	6376	6603
		WBD60	6396	6716	7035	7355	7675	7995	8315	8634	8954	9274
		WBD75	8653	9085	9518	9950	10383	10816	11248	11681	12114	12546
		WBD90	10064	10568	11071	11574	12077	12580	13084	13587	14090	14593
		WBD105	11699	12284	12869	13454	14038	14623	15208	15793	16378	16963
		WBD120	13637	14319	15000	15682	16364	17046	17728	18410	19091	19773
		WBD120D	13855	14547	15240	15933	16626	17318	18011	18704	19397	20089
		WBD150D	16661	17494	18327	19160	19993	20826	21659	22492	23325	24158
		WBD180D	20519	21545	22571	23597	24623	25649	26675	27701	28727	29753
21	Platform dryer	WBD210D	23851	25044	26236	27429	28621	29814	31007	32199	33392	34584
		WBD240D	27008	28358	29709	31059	32410	33760	35110	36461	37811	39162
		WBD120D	4500	4725	4950	5175	5400	5625	5850	6075	6300	6525
		WBD150D	5175	5434	5693	5951	6210	6469	6728	6986	7245	7504
		WBD180D	6210	6521	6831	7142	7452	7763	8073	8384	8694	9005
		WBD210D	6750	7088	7425	7763	8100	8438	8775	9113	9450	9788
		WBD240D	7650	8033	8415	8798	9180	9563	9945	10328	10710	11093
		WBU00X	3237	3399	3560	3722	3884	4046	4208	4370	4531	4693
22	Bunker	WBU5	4733	4969	5206	5442	5679	5916	6152	6389	6626	6862
		WBU10-25	8770	9208	9647	10085	10524	10962	11400	11839	12277	12716
		WBU35	9443	9915	10388	10860	11332	11804	12276	12748	13221	13693
23	Bagging point	WLS1-2	1913	2009	2105	2200	2296	2392	2487	2583	2679	2774
		WLS3-5	3827	4018	4210	4401	4592	4784	4975	5166	5358	5549
23	Conveyor	WSC	1913	2009	2105	2200	2296	2392	2487	2583	2679	2774
23	Silo	WSI	11354	11921	12489	13057	13624	14192	14760	15327	15895	16463
30	Container dryer	WCD04-08	1792	1882	1971	2061	2151	2240	2330	2419	2509	2599
		WCD15	2226	2338	2449	2560	2672	2783	2894	3006	3117	3228
		WCD30	3400	3570	3740	3910	4080	4250	4420	4590	4760	4930
		WCD48-60	4554	4782	5009	5237	5465	5693	5920	6148	6376	6603
		WCD90C	6396	6716	7035	7355	7675	7995	8315	8634	8954	9274
31	Drying container	WTC	2908	3054	3199	3344	3490	3635	3781	3926	4072	4217
		WGM	4219	4430	4641	4852	5063	5274	5485	5696	5907	6118
40	Skip-dryer	WSD01	520	546	572	598	624	650	676	702	728	754
		WSD04-08	1960	2058	2156	2254	2352	2450	2548	2646	2744	2842
		WSD12-16	2238	2350	2462	2574	2685	2797	2909	3021	3133	3245
		WSD20-24	4120	4326	4532	4738	4944	5150	5356	5562	5768	5974
41	Drying skip	WSK500	587	616	646	675	704	734	763	792	822	851
		WSK1320	976	1025	1074	1123	1171	1220	1269	1318	1367	1415
		WSK1700	1106	1161	1217	1272	1327	1383	1438	1493	1549	1604
		WTM2700	2103	2208	2313	2418	2523	2628	2733	2838	2944	3049
		WTM3700	2554	2682	2810	2938	3065	3193	3321	3448	3576	3704
43	Big Bag hopper	WHO	1238	1300	1362	1424	1486	1548	1610	1671	1733	1795

Canada-USA

Part	Country		Canada	Canada	Canada	Canada	USA	USA	USA	USA
	Destination	km	Vancouv	Montreal	Toronto	Quebec	Los A	Housten	Orleans	Charl
		Days	31	10	11	9	27	22	20	17
11	Screw press	WSP05+WMT	11160	3600	3960	3240	9720	7920	7200	6120
		WSP15+WMT	14731	4752	5227	4277	12830	10454	9504	8078
		WSP25+WMT	13811	4455	4901	4010	12029	9801	8910	7574
		WSP50+WMT	18905	6098	6708	5489	16466	13416	12197	10367
		WSP75+WMT	22506	7260	7986	6534	19602	15972	14520	12342
11	Platform press	WSP05	2790	900	990	810	2430	1980	1800	1530
		WSP15	4673	1508	1658	1357	4070	3317	3015	2563
		WSP25	4366	1408	1549	1268	3803	3099	2817	2394
		WSP50	3689	1190	1309	1071	3213	2618	2380	2023
		WSP75	3966	1279	1407	1151	3454	2814	2559	2175
		2xWSP05	3581	1155	1271	1040	3119	2541	2310	1964
		2xWSP15	4543	1466	1612	1319	3957	3224	2931	2492
		2xWSP25	5544	1789	1967	1610	4829	3935	3577	3040
		2xWSP50	6076	1960	2156	1764	5292	4312	3920	3332
	2xWSP75	6532	2107	2318	1896	5689	4635	4214	3582	
12	Polymer unit	WPL	17	6	6	5	15	12	11	9
		WPP	1463	472	519	425	1274	1038	944	802
13	Thickener	WTH	15640	5045	5550	4541	13622	11099	10090	8577
21	Belt dryer	WBD04-08	1652	533	586	480	1439	1172	1066	906
		WBD15	4555	1469	1616	1322	3967	3233	2939	2498
		WBD30	6423	2072	2279	1865	5595	4559	4144	3523
		WBD45	6588	2125	2338	1913	5738	4675	4250	3613
		WBD60	8272	2668	2935	2401	7204	5870	5337	4536
		WBD75	9060	2923	3215	2630	7891	6430	5845	4969
		WBD90	10608	3422	3764	3080	9239	7528	6844	5817
		WBD105	12330	3978	4375	3580	10739	8751	7955	6762
		WBD120	11788	3803	4183	3422	10267	8366	7605	6465
		WBD120D	11329	3655	4020	3289	9868	8040	7309	6213
		WBD150D	13624	4395	4834	3955	11866	9669	8790	7471
		WBD180D	17020	5490	6039	4941	14824	12078	10980	9333
		WBD210D	19784	6382	7020	5744	17231	14040	12764	10849
WBD240D	22628	7299	8029	6570	19709	16059	14599	12409		
21	Platform dryer	WBD120D	4883	1575	1733	1418	4253	3465	3150	2678
		WBD150D	5615	1811	1992	1630	4890	3985	3623	3079
		WBD180D	6738	2174	2391	1956	5868	4782	4347	3695
		WBD210D	7324	2363	2599	2126	6379	5198	4725	4016
		WBD240D	8300	2678	2945	2410	7229	5891	5355	4552
22	Bunker	WBU00X	3013	972	1069	875	2624	2138	1944	1652
		WBU5	4406	1421	1563	1279	3837	3127	2842	2416
		WBU10-25	6419	2071	2278	1864	5591	4555	4141	3520
		WBU35	7319	2361	2597	2125	6374	5194	4722	4013
23	Bagging point	WLS1-2	3563	1149	1264	1034	3103	2528	2298	1954
		WLS3-5	7125	2298	2528	2069	6206	5056	4597	3907
23	Conveyor	WSC	3563	1149	1264	1034	3103	2528	2298	1954
23	Silo	WSI	22173	7153	7868	6437	19312	15736	14305	12160
30	Container dryer	WCD04-08	2836	915	1006	823	2470	2013	1830	1555
		WCD15	5867	1892	2082	1703	5110	4163	3785	3217
		WCD30	11200	3613	3974	3252	9755	7948	7226	6142
		WCD48-60	15059	4858	5343	4372	13116	10687	9715	8258
		WCD90C	19827	6396	7035	5756	17269	14071	12792	10873
31	Drying container	WTC	4508	1454	1600	1309	3926	3199	2908	2472
		WGM	6540	2110	2321	1899	5696	4641	4219	3586
40	Skip-dryer	WSD01	2345	756	832	681	2042	1664	1513	1286
		WSD04-08	3832	1236	1360	1112	3337	2719	2472	2101
		WSD12-16	4062	1310	1442	1179	3538	2883	2621	2228
		WSD20-24	6520	2103	2314	1893	5679	4627	4207	3576
41	Drying skip	WSK500	1882	607	668	546	1639	1336	1214	1032
		WSK1320	2389	771	848	694	2081	1695	1541	1310
		WSK1700	2368	764	840	688	2063	1681	1528	1299
		WTM2700	3915	1263	1389	1137	3410	2778	2526	2147
		WTM3700	4399	1419	1561	1277	3832	3122	2838	2412
43	Big Bag hopper	WHO	2881	930	1022	837	2510	2045	1859	1580

Mexico-Argentina

51

Part	Country		Mexico	Mexico	Panama	Nicaragua	Colombia	Chille	Peru	Brazil	Uruguay	Argent
	Destination	km	Mazatlan	Veracruz	Colon	Manag	Cartagena	Valp	Callao	Santos	Montev	Arbue
		Days	30	15	19	19	19	31	30	18	20	21
11	Screw press	WSP05+WMT	10800	5400	6840	6840	6840	11160	10800	6480	7200	7560
		WSP15+WMT	14256	7128	9029	9029	9029	14731	14256	8554	9504	9979
		WSP25+WMT	13365	6683	8465	8465	8465	13811	13365	8019	8910	9356
		WSP50+WMT	18295	9148	11587	11587	11587	18905	18295	10977	12197	12807
		WSP75+WMT	21780	10890	13794	13794	13794	22506	21780	13068	14520	15246
11	Platform press	WSP05	2700	1350	1710	1710	6840	2790	2700	1620	1800	1890
		WSP15	4523	2261	2864	2864	9029	4673	4523	2714	3015	3166
		WSP25	4225	2113	2676	2676	8465	4366	4225	2535	2817	2958
		WSP50	3570	1785	2261	2261	11587	3689	3570	2142	2380	2499
		WSP75	3838	1919	2431	2431	13794	3966	3838	2303	2559	2686
		2xWSP05	3465	1733	2195	2195	6840	3581	3465	2079	2310	2426
		2xWSP15	4397	2198	2785	2785	9029	4543	4397	2638	2931	3078
		2xWSP25	5366	2683	3398	3398	8465	5544	5366	3219	3577	3756
	2xWSP50	5880	2940	3724	3724	11587	6076	5880	3528	3920	4116	
	2xWSP75	6321	3161	4003	4003	13794	6532	6321	3793	4214	4425	
12	Polymer unit	WPL	17	8	11	11	9586	17	17	10	11	12
		WPP	1416	708	897	897	9586	1463	1416	849	944	991
13	Thickener	WTH	15135	7568	9586	9586	9586	15640	15135	9081	10090	10595
21	Belt dryer	WBD04-08	1598	799	1012	1012	792	1652	1598	959	1066	1119
		WBD15	4408	2204	2792	2792	2317	4555	4408	2645	2939	3086
		WBD30	6216	3108	3937	3937	3244	6423	6216	3730	4144	4351
		WBD45	6376	3188	4038	4038	3328	6588	6376	3825	4250	4463
		WBD60	8005	4002	5070	5070	4178	8272	8005	4803	5337	5603
		WBD75	8768	4384	5553	5553	4609	9060	8768	5261	5845	6138
		WBD90	10266	5133	6502	6502	5397	10608	10266	6159	6844	7186
		WBD105	11933	5966	7557	7557	6273	12330	11933	7160	7955	8353
		WBD120	11408	5704	7225	7225	5712	11788	11408	6845	7605	7986
		WBD120D	10964	5482	6944	6944	6313	11329	10964	6578	7309	7675
		WBD150D	13185	6592	8350	8350	7591	13624	13185	7911	8790	9229
		WBD180D	16471	8235	10431	10431	9483	17020	16471	9882	10980	11529
		WBD210D	19145	9573	12125	12125	11023	19784	19145	11487	12764	13402
		WBD240D	21898	10949	13869	13869	12608	22628	21898	13139	14599	15329
21	Platform dryer	WBD120D	4725	2363	2993	2993	6840	4883	4725	2835	3150	3308
		WBD150D	5434	2717	3441	3441	9029	5615	5434	3260	3623	3804
		WBD180D	6521	3260	4130	4130	8465	6738	6521	3912	4347	4564
		WBD210D	7088	3544	4489	4489	11587	7324	7088	4253	4725	4961
		WBD240D	8033	4016	5087	5087	13794	8300	8033	4820	5355	5623
22	Bunker	WBU00X	2916	1458	1847	1847	2700	3013	2916	1750	1944	2041
		WBU5	4264	2132	2700	2700	2700	4406	4264	2558	2842	2985
		WBU10-25	6212	3106	3934	3934	3934	6419	6212	3727	4141	4348
		WBU35	7082	3541	4486	4486	4486	7319	7082	4249	4722	4958
23	Bagging point	WLS1-2	3448	1724	2183	2183	2183	3563	3448	2069	2298	2413
		WLS3-5	6895	3448	4367	4367	4367	7125	6895	4137	4597	4827
23	Conveyor	WSC	3448	1724	2183	2183	2183	3563	3448	2069	2298	2413
23	Silo	WSI	21458	10729	13590	13590	13590	22173	21458	12875	14305	15021
30	Container dryer	WCD04-08	2745	1372	1738	1738	4821	2836	2745	1647	1830	1921
		WCD15	5677	2839	3596	3596	4821	5867	5677	3406	3785	3974
		WCD30	10839	5419	6864	6864	4821	11200	10839	6503	7226	7587
		WCD48-60	14573	7286	9229	9229	8041	15059	14573	8744	9715	10201
		WCD90C	19188	9594	12152	12152	9377	19827	19188	11513	12792	13431
31	Drying container	WTC	4362	2181	2763	2763	2763	4508	4362	2617	2908	3054
		WGM	6329	3164	4008	4008	4008	6540	6329	3797	4219	4430
40	Skip-dryer	WSD01	2269	1135	1437	1437	1437	2345	2269	1362	1513	1588
		WSD04-08	3708	1854	2349	2349	2349	3832	3708	2225	2472	2596
		WSD12-16	3931	1966	2490	2490	2490	4062	3931	2359	2621	2752
		WSD20-24	6310	3155	3996	3996	3996	6520	6310	3786	4207	4417
41	Drying skip	WSK500	1821	911	1153	1153	1153	1882	1821	1093	1214	1275
		WSK1320	2312	1156	1464	1464	1464	2389	2312	1387	1541	1618
		WSK1700	2292	1146	1452	1452	1452	2368	2292	1375	1528	1604
		WTM2700	3788	1894	2399	2399	2399	3915	3788	2273	2526	2652
		WTM3700	4257	2129	2696	2696	2696	4399	4257	2554	2838	2980
43	Big Bag hopper	WHO	2789	1394	1766	1766	1766	2881	2789	1673	1859	1952

Turkey-Iran

Part	Country		Turkey	Israel	Agypt	Jordan	UA	Katar	Bharein	Saudi	Iran	Irak
	Destination	km	Istanbul	TelAviv	Kairo	Amman	Dubai	Doha	Manama	Damman	BanAB	UmmQ
		Days	10	14	15	21	26	27	28	29	30	31
11	Screw press	WSP05+WMT	3600	5040	5400	7560	9360	9720	10080	10440	10800	11160
		WSP15+WMT	4752	6653	7128	9979	12355	12830	13306	13781	14256	14731
		WSP25+WMT	4455	6237	6683	9356	11583	12029	12474	12920	13365	13811
		WSP50+WMT	6098	8538	9148	12807	15856	16466	17076	17685	18295	18905
		WSP75+WMT	7260	10164	10890	15246	18876	19602	20328	21054	21780	22506
11	Platform press	WSP05	900	1260	1350	1890	2340	2430	2520	2610	2700	2790
		WSP15	1508	2111	2261	3166	3920	4070	4221	4372	4523	4673
		WSP25	1408	1972	2113	2958	3662	3803	3944	4084	4225	4366
		WSP50	1190	1666	1785	2499	3094	3213	3332	3451	3570	3689
		WSP75	1279	1791	1919	2686	3326	3454	3582	3710	3838	3966
		2xWSP05	1155	1617	1733	2426	3003	3119	3234	3350	3465	3581
		2xWSP15	1466	2052	2198	3078	3811	3957	4104	4250	4397	4543
		2xWSP25	1789	2504	2683	3756	4650	4829	5008	5187	5366	5544
		2xWSP50	1960	2744	2940	4116	5096	5292	5488	5684	5880	6076
	2xWSP75	2107	2950	3161	4425	5478	5689	5900	6110	6321	6532	
12	Polymer unit	WPL	6	8	8	12	15	15	16	16	17	17
		WPP	472	661	708	991	1227	1274	1321	1369	1416	1463
13	Thickener	WTH	5045	7063	7568	10595	13117	13622	14126	14631	15135	15640
21	Belt dryer	WBD04-08	533	746	799	1119	1385	1439	1492	1545	1598	1652
		WBD15	1469	2057	2204	3086	3821	3967	4114	4261	4408	4555
		WBD30	2072	2901	3108	4351	5387	5595	5802	6009	6216	6423
		WBD45	2125	2975	3188	4463	5526	5738	5951	6163	6376	6588
		WBD60	2668	3736	4002	5603	6937	7204	7471	7738	8005	8272
		WBD75	2923	4092	4384	6138	7599	7891	8183	8476	8768	9060
		WBD90	3422	4791	5133	7186	8897	9239	9581	9923	10266	10608
		WBD105	3978	5569	5966	8353	10342	10739	11137	11535	11933	12330
		WBD120	3803	5324	5704	7986	9887	10267	10648	11028	11408	11788
		WBD120D	3655	5117	5482	7675	9502	9868	10233	10598	10964	11329
		WBD150D	4395	6153	6592	9229	11427	11866	12306	12745	13185	13624
		WBD180D	5490	7686	8235	11529	14275	14824	15373	15922	16471	17020
		WBD210D	6382	8935	9573	13402	16593	17231	17869	18507	19145	19784
		WBD240D	7299	10219	10949	15329	18979	19709	20438	21168	21898	22628
21	Platform dryer	WBD120D	1575	2205	2363	3308	4095	4253	4410	4568	4725	4883
		WBD150D	1811	2536	2717	3804	4709	4890	5072	5253	5434	5615
		WBD180D	2174	3043	3260	4564	5651	5868	6086	6303	6521	6738
		WBD210D	2363	3308	3544	4961	6143	6379	6615	6851	7088	7324
		WBD240D	2678	3749	4016	5623	6962	7229	7497	7765	8033	8300
22	Bunker	WBU00X	972	1361	1458	2041	2527	2624	2722	2819	2916	3013
		WBU5	1421	1990	2132	2985	3695	3837	3979	4121	4264	4406
		WBU10-25	2071	2899	3106	4348	5384	5591	5798	6005	6212	6419
		WBU35	2361	3305	3541	4958	6138	6374	6610	6846	7082	7319
23	Bagging point	WLS1-2	1149	1609	1724	2413	2988	3103	3218	3333	3448	3563
		WLS3-5	2298	3218	3448	4827	5976	6206	6436	6665	6895	7125
23	Conveyor	WSC	1149	1609	1724	2413	2988	3103	3218	3333	3448	3563
23	Silo	WSI	7153	10014	10729	15021	18597	19312	20028	20743	21458	22173
30	Container dryer	WCD04-08	915	1281	1372	1921	2379	2470	2562	2653	2745	2836
		WCD15	1892	2649	2839	3974	4920	5110	5299	5488	5677	5867
		WCD30	3613	5058	5419	7587	9393	9755	10116	10477	10839	11200
		WCD48-60	4858	6801	7286	10201	12630	13116	13601	14087	14573	15059
		WCD90C	6396	8954	9594	13431	16629	17269	17908	18548	19188	19827
31	Drying container	WTC	1454	2036	2181	3054	3781	3926	4072	4217	4362	4508
		WGM	2110	2953	3164	4430	5485	5696	5907	6118	6329	6540
40	Skip-dryer	WSD01	756	1059	1135	1588	1967	2042	2118	2194	2269	2345
		WSD04-08	1236	1731	1854	2596	3214	3337	3461	3585	3708	3832
		WSD12-16	1310	1835	1966	2752	3407	3538	3669	3800	3931	4062
		WSD20-24	2103	2945	3155	4417	5469	5679	5889	6100	6310	6520
41	Drying skip	WSK500	607	850	911	1275	1578	1639	1700	1761	1821	1882
		WSK1320	771	1079	1156	1618	2004	2081	2158	2235	2312	2389
		WSK1700	764	1070	1146	1604	1986	2063	2139	2216	2292	2368
		WTM2700	1263	1768	1894	2652	3283	3410	3536	3662	3788	3915
		WTM3700	1419	1987	2129	2980	3690	3832	3973	4115	4257	4399
43	Big Bag hopper	WHO	930	1301	1394	1952	2417	2510	2603	2696	2789	2881

India-Australia

Part	Country		India	SriLa	Vietnam	Taiwan	Korea	Korea	Taiwan	Austr	Austr	Papua
	Destination	km	Mumbai	Colom	Hanoi	Kaoh	Busan	Seoul	Taipei	Perth	Melb	Mores
		Days	20	21	26	33	33	34	41	34	35	28
11	Screw press	WSP05+WMT	7200	7560	9360	11880	11880	12240	14760	12240	12600	10080
		WSP15+WMT	9504	9979	12355	15682	15682	16157	19483	16157	16632	13306
		WSP25+WMT	8910	9356	11583	14702	14702	15147	18266	15147	15593	12474
		WSP50+WMT	12197	12807	15856	20125	20125	20735	25003	20735	21344	17076
		WSP75+WMT	14520	15246	18876	23958	23958	24684	29766	24684	25410	20328
11	Platform press	WSP05	1800	1890	2340	2970	2970	3060	3690	3060	3150	2520
		WSP15	3015	3166	3920	4975	4975	5126	6181	5126	5276	4221
		WSP25	2817	2958	3662	4648	4648	4789	5775	4789	4930	3944
		WSP50	2380	2499	3094	3927	3927	4046	4879	4046	4165	3332
		WSP75	2559	2686	3326	4222	4222	4349	5245	4349	4477	3582
		2xWSP05	2310	2426	3003	3812	3812	3927	4736	3927	4043	3234
		2xWSP15	2931	3078	3811	4837	4837	4983	6009	4983	5130	4104
		2xWSP25	3577	3756	4650	5902	5902	6081	7333	6081	6260	5008
12	Polymer unit	2xWSP50	3920	4116	5096	6468	6468	6664	8036	6664	6860	5488
		2xWSP75	4214	4425	5478	6953	6953	7164	8639	7164	7375	5900
13	Thickener	WPL	11	12	15	18	18	19	23	19	20	16
		WPP	944	991	1227	1557	1557	1604	1935	1604	1652	1321
21	Belt dryer	WTH	10090	10595	13117	16649	16649	17153	20685	17153	17658	14126
21	Belt dryer	WBD04-08	1066	1119	1385	1758	1758	1812	2185	1812	1865	1492
		WBD15	2939	3086	3821	4849	4849	4996	6025	4996	5143	4114
		WBD30	4144	4351	5387	6838	6838	7045	8495	7045	7252	5802
		WBD45	4250	4463	5526	7013	7013	7226	8713	7226	7438	5951
		WBD60	5337	5603	6937	8805	8805	9072	10940	9072	9339	7471
		WBD75	5845	6138	7599	9645	9645	9937	11983	9937	10229	8183
		WBD90	6844	7186	8897	11292	11292	11634	14030	11634	11977	9581
		WBD105	7955	8353	10342	13126	13126	13524	16308	13524	13921	11137
		WBD120	7605	7986	9887	12549	12549	12929	15591	12929	13309	10648
		WBD120D	7309	7675	9502	12060	12060	12426	14984	12426	12791	10233
		WBD150D	8790	9229	11427	14503	14503	14942	18019	14942	15382	12306
		WBD180D	10980	11529	14275	18118	18118	18667	22510	18667	19216	15373
		WBD210D	12764	13402	16593	21060	21060	21698	26165	21698	22336	17869
WBD240D	14599	15329	18979	24088	24088	24818	29928	24818	25548	20438		
21	Platform dryer	WBD120D	3150	3308	4095	5198	5198	5355	6458	5355	5513	4410
		WBD150D	3623	3804	4709	5977	5977	6158	7426	6158	6339	5072
		WBD180D	4347	4564	5651	7173	7173	7390	8911	7390	7607	6086
		WBD210D	4725	4961	6143	7796	7796	8033	9686	8033	8269	6615
		WBD240D	5355	5623	6962	8836	8836	9104	10978	9104	9371	7497
22	Bunker	WBU00X	1944	2041	2527	3208	3208	3305	3985	3305	3402	2722
		WBU5	2842	2985	3695	4690	4690	4832	5827	4832	4974	3979
		WBU10-25	4141	4348	5384	6833	6833	7040	8489	7040	7247	5798
23	Bagging point	WBU35	4722	4958	6138	7791	7791	8027	9679	8027	8263	6610
		WLS1-2	2298	2413	2988	3792	3792	3907	4712	3907	4022	3218
		WLS3-5	4597	4827	5976	7585	7585	7815	9423	7815	8044	6436
23	Conveyor	WSC	2298	2413	2988	3792	3792	3907	4712	3907	4022	3218
23	Silo	WSI	14305	15021	18597	23604	23604	24319	29326	24319	25034	20028
30	Container dryer	WCD04-08	1830	1921	2379	3019	3019	3111	3751	3111	3202	2562
		WCD15	3785	3974	4920	6245	6245	6434	7759	6434	6624	5299
		WCD30	7226	7587	9393	11922	11922	12284	14813	12284	12645	10116
		WCD48-60	9715	10201	12630	16030	16030	16516	19916	16516	17002	13601
		WCD90C	12792	13431	16629	21106	21106	21746	26223	21746	22385	17908
31	Drying container	WTC	2908	3054	3781	4799	4799	4944	5962	4944	5089	4072
		WGM	4219	4430	5485	6962	6962	7173	8649	7173	7384	5907
40	Skip-dryer	WSD01	1513	1588	1967	2496	2496	2572	3101	2572	2647	2118
		WSD04-08	2472	2596	3214	4079	4079	4203	5068	4203	4326	3461
		WSD12-16	2621	2752	3407	4325	4325	4456	5373	4456	4587	3669
41	Drying skip	WSD20-24	4207	4417	5469	6941	6941	7151	8624	7151	7362	5889
		WSK500	1214	1275	1578	2003	2003	2064	2489	2064	2125	1700
		WSK1320	1541	1618	2004	2543	2543	2620	3160	2620	2697	2158
43	Big Bag hopper	WSK1700	1528	1604	1986	2521	2521	2598	3132	2598	2674	2139
		WTM2700	2526	2652	3283	4167	4167	4294	5177	4294	4420	3536
		WTM3700	2838	2980	3690	4683	4683	4825	5818	4825	4967	3973
		WHO	1859	1952	2417	3067	3067	3160	3811	3160	3253	2603

Travel costs

52

Country	Distance in km Destination	Travel time Hours	Car/Flight costs	Field allowance costs	Travel costs Euro
	100	2	180	24	404
	200	4	360	47	807
	300	6	540	71	1211
	400	7	680	82	1462
	500	8	800	94	1694
	600	9	900	106	1906
	700	10	840	118	1958
	800	11	880	129	2109
	900	12	900	141	2241
	1000	13	960	153	2413
	1200	14	1104	165	2669
	1400	15	1232	176	2908
	1600	16	1344	188	3132
	1800	17	1440	200	3340
	2000	18	1480	212	3492
	2200	19	1628	224	3752
	2400	20	1776	235	4011
	2600	21	1924	247	4271
	2800	22	2072	259	4531
	3000	24	2220	282	4902
Near and Middle East					
Türkey	Istanbul	12	900	141	2241
Israel	Tel Aviv	14	1000	165	2565
Agypten	Kairo	15	1000	176	2676
Emirate	Dubai	18	1100	212	3112
Saudi Arabia	Riadh	18	1200	212	3212
Iran	Teheran	20	1200	235	3435
Asia					
Indien	Mumbay	28	1120	329	4249
Malaysia	Kuala Lumpur	30	1450	353	4803
Taiwan	Taipei	36	1550	424	5574
Korea	Seoul	38	1610	447	5857
Japan	Tokyo	42	1800	494	6494
Australien	Melbourne	46	1800	541	6941
America					
Kanada	Montreal	23	1120	271	3691
USA	New York	24	960	282	3642
USA	Chicago	27	1250	318	4268
USA	Charleston	28	1250	329	4379
USA	New Orleans	30	1450	353	4803
USA	Los Angeles	34	1600	400	5400
Colombia	Bogota	34	1320	400	5120
Mexico	Mexico	35	1320	412	5232
Brasilien	Sao Paulo	36	1320	424	5344
Peru	Lima	38	1650	447	5897
Uruguay	Montevideo	40	1580	471	6051
Argentinien	Buones Aires	42	1580	494	6274

Erection, Commissioning costs

53

Part	Name	Type	Days	Expert	Fitter	Total people	Costs Euro€
10	Press-dryer	WPD05..	5	1	1	2	9500
		WPD15..	8	1	1	2	15200
		WPD25..	10	1	1	2	19000
		WPD50..	12	1	1	2	22800
11	Screw press	WSP05	2	1	1	2	3800
		WSP15	3	1	1	2	5700
		WSP25	4	1	1	2	7600
		WSP50	5	1	1	2	9500
		WSP75	6	1	1	2	11400
13	Thickener	WTH	4	1	1	2	7600
20	Bunker-dryer	WBU05WBD..	3	1		1	2850
		WBU10WBD..	4	1		1	3800
		WBU15WBD..	5	1	1	2	9500
		WBU25WBD..	7.5	1	1	2	14250
		WBU35WBD...D	12	1	1	2	22800
21	Belt dryer	WBD04-08	2	1		1	1900
		WBD15-30	2.5	1		1	2375
		WBD45-60	3.5	1	1	2	6650
		WBD75-90	4.5	1	1	2	8550
		WBD105-120	5.5	1	1	2	10450
		WBD120-180D	7.5	1	1	2	14250
		WBD210-240D	9.5	1	1	2	18050
22	Bunker	WBU00X	1		1	1	950
		WBU05	1.5		1	1	1425
		WBU10-25	2		1	1	1900
		WBU35	2.5		1	1	2375
23	Bagging, conveyor	WLS, WSC	1		1	1	950
23	Silo	WSI	7	1	1	2	13300
30	Container-dryer	WCD	4	1	1	2	7600
40	Skip-dryer	WSD	1	1		1	950

Supervising costs

53

Part	Name	Type	Days	Expert	Costs Euro
10	Press-dryer	WPD05..	5	1	4750
		WPD15..	8	1	7600
		WPD25..	10	1	9500
		WPD50..	12	1	11400
11	Screw press	WSP05	2	1	1900
		WSP15	3	1	2850
		WSP25	4	1	3800
		WSP50	5	1	4750
		WSP75	6	1	5700
13	Thickener	WTH	4	1	3800
20	Bunker-dryer	WBU05WBD..	3	1	2850
		WBU10WBD..	4	1	3800
		WBU15WBD..	5	1	4750
		WBU25WBD..	7.5	1	7125
		WBU35WBD...D	12	1	11400
21	Belt dryer	WBD04-08	2	1	1900
		WBD15-30	2.5	1	2375
		WBD45-60	3.5	1	3325
		WBD75-90	4.5	1	4275
		WBD105-120	5.5	1	5225
		WBD120-180D	7.5	1	7125
		WBD210-240D	9.5	1	9025
22	Bunker	WBU00X	1	0	0
		WBU05	1.5	0	0
		WBU10-25	2	0	0
		WBU35	2.5	0	0
23	Bagging conveyor	WLS, WSC	1		0
23	Silo	WSI	7	1	6650
30	Container-dryer	WCD	2	0	1900
40	Skip-dryer	WSD	1	0	950