



Quotation Ref. 3038

According to our terms of delivery and payment we are pleased to submit the following offer:

1 PET RECYCLING PLANT Type BE-PET 300

- **Capacity:** Input 300 kg/h Output 250 kg/h
- **Input Materials:** PET-Bottles 0,5 – 2 Liter
with PET bottles with PE/PP caps and paper or LDPE labels

The complete line consists of the following components:

Item 1 Granulator Type PC 3280

Heavy duty type with integrated sound proofing and conveyor feed belt

- Rotary knives: 3 x 2
- Static knives: 2 x 2
- Rotor length: 800 mm
- Rotor diameter: 320 mm
- Feed opening: 800x320 mm
- Weight: 1730 kg
- Power: 22,0 kW

with suction device consisting of:

Material fan blower, connecting pipe-work and cyclone for charging the downstream precleaner.

Drive power: 5,5 kW

Item 3 Precleaner

to separate adherent contamination in dry condition

- Type: MTR 70/40
- Housing diameter: 1080 mm
- Housing height: 1330 mm
- Screen diameter: 750 / 400 mm
- Rotor diameter: 725 / 375 mm
- Rotor drive power: 7,5 kW
- Rotor speed: 1000 UpM
- Feeding screw drive power: 0,55 kW
- Drive power cleaning device: 0,55 kW
- Material: RSt 37-2 - coated
- Base frame:
 - Length: 1280 mm
 - Width: 1280 mm
 - Height: 1000 mm
 - Material: RSt 37-2, zinc plated

**Item 3 Air Classifier Unit**

to separate detached labels consisting of:
Pipe-work, cyclone, rotary valve, sifter cascade,
suction blower and cyclone

- Type: 1 SE 30
- Rotary valve drive power: 0,55 kW
- Blower drive power: 2,2 kW
- Material: RSt 37 – coated and stainless steel 1.4301

Item 4 Hot Wash Device

Dissolution of label glue including NaOH dosing device
and electric heater

- Type: LW 25-K
- Process temperature: 75-90°C
- Residence time: 8-12 min.
- Housing diameter: 1500 / 850 mm
- Housing height: 950 mm
- Total height: 1800 mm
- Turning drive power: 0,25 kW
- Drive power feeding screw: 0,55 kW
- Drive power 8 mixers: 0,55 kW per mixer
- Heater: 36 kW
- Insulating: Rock wool / Stainless steel 1.4301
- Material: Stainless steel 1.4301

Item 5 Rinsing Device

Rinsing of the PET-Flakes mit clear water including drying and separation of
the PE/PP bottle caps

- Type: NW 40/25 – MT
- Length: 1000 mm
- Width: 450 mm
- Height: 450 mm
- Main rotor diameter: 320 mm
- Main screen diameter: 350 mm
- PE/PP – Rotor: 250 mm
- PE/PP – Screen: 280 mm
- Drive power: 4 kW
- Material: Stainless steel 1.4301

Item 6 Base Circular Flow

in order to lower NaOH consumption consisting of reflux pie-work,
collecting pot and circulation pump with drive power 2,2 kW

Item 7 Hydro Cyclone Separator

for separation of PE/PP caps from PET-Flakes consisting of
mixing pot, supply pump with drive power 3 kW, pipe-work and hydro cyclone



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Item 8 Mechanical Dryer

for drying of the PET-flakes

- Type: MT 70/40
- Housing diameter: 880 mm
- Housing height: 1330 mm
- Rotor diameter: 750 / 400 mm
- Screen diameter: 725 / 375 mm
- Rotor drive power: 7,5 kW
- Rotor speed: 1000 upm
- Drive power feeding screw: 0,55 kW
- Cyclone: Ø 400 mm
- Drive power cleaning device: 0,55 kW
- Material: Stainless steel 1.4301

Base frame

- Length: 1080 mm
- Width: 1080 mm
- Height: 500 mm
- Material: RSt 37-2 / zinc plated

Item 9 BIG-BAG Bagging Station

consisting of

Pipe-work

Cyclone

Suction blower with drive power 2,2 kW

Base frame

Item 10 Electric Control Cabinet

Electronic control for the before listed components and motors,
cables and wiring of the components and motors are not included.

Option Thermal Air Drying

consisting of

Electrical heater 3 x 12 kW

Electrical control



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Quality and Workmanship

- All parts are manufactured from sturdy steel and stainless steel sectional profiles and sheets
- Conceived for a long lifetime
- Every machine is abundantly dimensioned for the guaranteed throughput

Guarantees

Mechanical Guarantees:

According to the guidelines of VDMA 12 months after startup at the most 15 months after delivery ex works as per our guarantee conditions. All parts subject to normal wear like V-belts, chains, scrapers, acceleration fins, screens etc. are excepted.

Operational Guarantees:

Input	250 - 300 kg/h
Output	200 – 250 kg/h

Limitation of Liability

Our liability to consequential damages only applies within the frame of our liability insurance. We are under no liability regarding loss of production, lost profit as well as damages caused by delay.

Terms of Delivery

ex works, unpacked, without transport insurance, without assembling and commissioning

Delivery Time

2-3 months after receipt of down payment and opening of L/C

Terms of Payment

40%	with the order
60%	against an irrevocable and confirmed L/C to be opened in our favour with a first class German bank payable upon first notification.

Assembly

Assembly is done by the client. The supplier may provide a supervisor for start up.

All expenses like airfare, hotel accommodation and daily expenses are borne by the client.



Installed Power Details and Consumption Values

Item	Description	Installed Power (kW)	Power Consumption in Operation (kW)
1	Granulator		
1.1	Drive power	22	14,7
1.2	Material fan blower	5,5	3,7
2	Precleaner		
2.1	Drive power	7,5	5,0
2.2	Feeding screw	0,55	0,4
2.3	Screen cleaning device	0,55	0,4
3	Air Classifier Unit		
3.1	Rotary valve	0,55	0,4
3.2	Suction blower	2,2	1,5
4	Hot Wash Device		
4.1	Feeding screw	0,55	0,4
4.2	Turning drive power	0,25	0,2
4.3	Mixers 8 x 0,55 kW	4,4	2,9
4.4	Heater	36	24,0
5	Rinsing Device		
5.1	Drive power	4	2,7
6	Base circular flow		
6.1	Circulation pump	2,2	1,5
7	Hydro cyclone		
7.1	Supply pump	3	2,0
8	Mechanical Dryer		
8.1	Drive power	7,5	5,0
8.2	Feeding screw	0,55	0,4
8.3	Drive power cleaning device	0,55	0,4
8.4	Rotary valve	0,55	0,4
9	Big-Bag Bagging Station		
9.1	Suction blower	2,2	1,5
	Total	100,6	67,1
Option	Thermal Air Drying		
	Heater 3 x 12 kW	36	15
	Total including Option	136,6	82,1
Water Water consumption in total			0,6 m³/h
Hot Wash Device Total volume First filling of NaOH NaOH consumption (alkaline solution 33%) Price depending of buying quantities NaOH-consumption is depending of pollution and required final cleanness.			300 ltr. ca. 14 ltr. ca. 6 ltr./h ca. 0,30 - 1,00 €/l.
Space requirements (no special foundations needed) Length Width Height			15,00 m 5,00 m 6,20 m



