MODULAR TUNNEL WASHER TL 72/110

CARBONELL MACHINES FOR INDUSTRIAL LAUNDRIES
CARBONELL COMPAÑÍA ANÓNIMA, was established in 1918 to the exclusive manufacture of machinery for the Laundry Industry.

Since 1.989, our company has dedicated all its efforts into developing and perfecting our **Sequential Washing System** for use by the modern laundry, which shall not be confounded with a washing tunnel for the following reasons:

a) Ours is a real **modular system**. Each module operates and functions independently of the adjacent modules.

b) Our modules perform **11 complete revolutions per minute**. This results in a superb mechanical washing action which is unachievable in any other system.

c) Our system does not use the liquor on a “counter flow” way.

d) We can easily open the tunnel at any module site in a time of 10 minutes maximum.

e) Our system washes by the same principle as it was a series of conventional washer extractors.

f) Consumption of time, water, products and energy is much lower than in any other system.

g) The simple design and construction of our system makes it easy and simple to operate and programme by the user.

**PLUS FEATURES**

1. **MECHANICAL ACTION**
   - Maximum mechanical action is produced
   - Full 360 degree rotation of the cylinder
   - 11 complete rotations per minute
   - **Results**: less washing time
     - less chemicals consumption
     - less steam usage
     - less water usage
     - Washes all kind of linen. (the dirtiest)

2. **MODULAR**
   - Each module operates independently of the next module, mechanically and chemically.
   - **Two different models** of S.W.S. are made to wash batches of **72 kg. or 110 kg. linen**.
   - Loading ratio of 1:43 (kg. / lit) in each case.
   - Independent baths in each module
   - Total removal of bath and linen on each transfer from module to module.
3. 1 MODULE: 1 WASHING EXTRACTOR
- Each module is independent, and provided with:
  # Entry of 5 chemical products.
  # Entry of clean water
  # Entry of recuperated water
  # Entry of water from the press
  # Entry of steam
  # Drain to recuperation
  # Drain to sewer

4. RECUPERATION AND STOCK OF WATER
- 1 container of 325 litres of fresh water for the last rinse. (The machine is not dependent on mains water pressure)
- 1 container of 325 litres of recuperated water from the press and the 3rd. rinse that will be used for the first two rinses.
- 1 container of 450 litres of recuperated water from the first two rinses to be used for pre-wash and wash.

5. FLEXIBLE PROGRAMMING
- The chemist is free to create the programme of his choice.
- Once the desired programme is decided, it is subdivided to match the number of modules.
- The entry of chemical products and water is programmable in seconds, weight, or volume.

6. COST BENEFITS
- Although the basic programme assumes a work load for the maximum weight capacity, the entry of chemical products and water is automatically adjusted to suit the actual weight of work load.
- The 1st. and 2nd. rinses are done with water coming from the press and from the last rinse.
- The 3rd. rinse necessitates a 2 litres/kilo of fresh water each;
  therefore, overall consumption is:
  no more than 2 litres per kilogram.

7. CONTROL OF ANCILLARIES
- The CARBONELL P.C. controls the loading conveyor or bags stock system, operation of the press, shuttle conveyor, dryers and printer.
8. COMPLETE INFORMATION
- The on-screen information instantly displays the location of work loads in the tunnel and in all ancillary equipments and provides comprehensive management information on the entire process.
- Daily and accumulated production control of articles and customers.
- Daily and accumulated control of water and chemical products consumption per articles and clients.
- Labelling of work loads after drying.

9. ACCESS AND SAFETY
- The tunnel may be opened to provide the access between any two modules in less than 10 minutes. The operator is then free to carry out routine maintenance or remove an obstruction in complete safety.
- Addition of modules to enlarge the production of the tunnel may be carried out in two days.

10. CONSTRUCTION
- Construction is entirely in grade AISI 304 stainless steel (other grades optional).
- Construction in accordance with EU Norms. (ISO 10472 1-2-3-4, ISO 7772, EN 292)
- Industrial PC
- Independent drive for each module.
- Standard components are utilised.
11. COMPARATIVE ANALYSIS

- The production of the CARBONELL system is up to 60 per cent greater than any other machine of the same length or same number of chambers.
- Water consumption is up to 50 per cent less than other machines currently on the market.
- Consumption of chemical products is up to a 30 per cent less than other machines on the market.
- In order to facilitate an estimation of the tunnel production capacity, Carbonell undertake to guarantee the following hourly average production rates:

<table>
<thead>
<tr>
<th>Nº of Modules</th>
<th>SWS 72</th>
<th>SWS 110</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>760</td>
<td>1.164</td>
</tr>
<tr>
<td>4</td>
<td>1.013</td>
<td>1.552</td>
</tr>
<tr>
<td>5</td>
<td>1.266</td>
<td>1.940</td>
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<td>6</td>
<td>1.519</td>
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<td>7</td>
<td>1.772</td>
<td>2.716</td>
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<td>8</td>
<td>2.025</td>
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<td>3.492</td>
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<td>10</td>
<td>2.531</td>
<td>3.880</td>
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<table>
<thead>
<tr>
<th>Nº of Modules</th>
<th>Product. Kg./hour</th>
<th>Product. Kg./hour</th>
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<tbody>
<tr>
<td>3</td>
<td>900</td>
<td>1.410</td>
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<td>1.200</td>
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<td>6</td>
<td>1.800</td>
<td>2.820</td>
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<td>7</td>
<td>2.100</td>
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<td>8</td>
<td>2.400</td>
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<td>2.700</td>
<td>4.230</td>
</tr>
<tr>
<td>10</td>
<td>3.100</td>
<td>4.700</td>
</tr>
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</table>

- Loads of 72 kg. and 110 kg. in 100% cotton

Our Washing Cycles are 14 minutes for hotel linen, 20 minutes for restaurant linen.
Rotating wash process

Download Rotation
The famous circle divided in 4 parts (SINNER CIRCLE), that we print hereunder, is the classic scheme of the 4 variables that determine the washing process in any circumstance.

Though you probably know, we can’t avoid saying that these variables are time, temperature, chemical action and mechanical action. Their intervention is on major or minor degree according to the kind of linen and machine used.

When talking about conventional tunnel washers and for a better understanding, let's assume that time, temperature, chemicals and mechanical action have a same value in all existing brands; the difference in construction and techniques is minor in all brands except ours, therefore the circle once formulated these values could be as follows:

It would be very logic to think that increasing one of these valuables the other three would diminish in the same proportion.

This is exactly what happens inside a CARBONELL tunnel washer.

Its big mechanical action, 11 complete revolutions per minute, make its mechanical action much bigger than any other washing system, resulting a big economy in water, temperature, and chemical products, and the most significant, a washing cycle which is the half of any other tunnel; and not to forget that the CARBONELL tunnel can easily wash dirty and very dirty linen, which is totally impossible for any of our competitors. Any laundry without a CARBONELL tunnel when washing dirty linen, is obliged to use conventional washing extractors, with the consequent use in excess of water, chemicals and time.
Total cycle .....780" (13'00")...... 1rst. WASHING 1 PHASE .....90"

Production Kgs/h. .............. 2nd. WASHING 2 PHASE .....450"

3rd. RINSE PHASE ............240"

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PR1  WHITE DETERGENT
PR2  WHITE DETERGENT
PR3  NEUTRALISER + BISULFITE
H₂O,R  H₂O RECOVERED
H₂O,PR H₂O RECOVERED PRESS
H₂O,L H₂O OUTSIDE LINE
R1  1rst. DRAIN RECOVERED
R2  2nd. DRAIN RECOVERED
R3  3rd. DRAIN RECOVERED PRESS
OUT1 DRAIN NON RECOVERED

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T.  0'  3'  6'  9'  12'  180°  360°  540°  720°

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WASH 1 WASH 2 R1 R2 R3 OUT RINSES
Total cycle .....780" (13'00") ..... 1rst. WASHING 1 PHASE ..... 90"
Production Kgs/h. ..... 885 ..... 2nd. WASHING 2 PHASE ..... 405"
3rd. RINSE PHASE ..... 285"

PR1: WHITE DETERGENT
PR2: WHITE DETERGENT
H₂O₂ (PEROXIDE)
PR3: NEUTRALISER + BISULFITE
H₂O.R: H₂O RECOVERED
H₂O.PR: H₂O RECOVERED PRESS
H₂O.L: H₂O OUTSIDE LINE
R1: 1rst. DRAIN RECOVERED
R2: 2nd. DRAIN RECOVERED
R3: 3rd. DRAIN RECOVERED PRESS
OUT1: DRAIN NON RECOVERED

TIME x MODULE ..... 290"
MAX. WEIGHT x MODULE ..... 72 Kg.

3 MODULES

H₂O.R + PR1
H₂O.R + PR1
H₂O.L + PR3
Total cycle \[780'' \text{ (13'00'')}\] 1rst. WASHING 1 PHASE \[90'' \] 
Production Kgs/h. \[1.475\] 2nd. WASHING 2 PHASE \[405'' \] 
3rd. RINSE PHASE \[285'' \]

**HOTEL LINEN (PEROXIDE)**

**5 MODULES**

- **PR1**: WHITE DETERGENT
- **PR2**: WHITE DETERGENT \(\text{H}_2\text{O}_2\) (PEROXIDE)
- **PR3**: NEUTRALISER + BISULFITE
- **H2O.R**: H2O RECUPERATED
- **H2O.PR**: H2O RECUPERATED PRESS
- **H2O.L**: H2O OUTSIDE LINE
- **R1**: 1rd. DRAIN RECUPERATED
- **R2**: 2nd. DRAIN RECUPERATED
- **R3**: 3rd. DRAIN RECUPERATED PRESS
- **OUT1**: DRAIN NON RECUPERATED
- **TIME x MODULE**: \[145''\]
- **MAX. WEIGHT x MODULE**: \[72\] Kg.
Total cycle: 780" (13'00")
1st. WASHING 1 PHASE: 90"
2nd. WASHING 2 PHASE: 445"
3rd. RINSE PHASE: 245"

Production Kgs/h: 2,065

PR1: WHITE DETERGENT
PR2: WHITE DETERGENT
   H₂O₂ (PEROXIDE)
PR3: NEUTRALISER + BISULFITE
H₂O.R: H₂O RECUPERATED
H₂O.PR: H₂O RECUPERATED PRESS
H₂O.L: H₂O OUTSIDE LINE
R1: 1st. DRAIN RECUPERATED
R2: 2nd. DRAIN RECUPERATED
R3: 3rd. DRAIN RECUPERATED PRESS
OUT1: DRAIN NON RECUPERATED
TIME × MODULE: 100"
MAX. WEIGT × MODULE: 72 Kgs
Total cycle: 1080" (18'00'"")
1st. WASHING 1 PHASE: 90"
2nd. WASHING 2 PHASE: 720"
3rd. RINSE PHASE: 270"

- PR1: COLOURED DETERGENT
- PR2: SPECIAL COLOURED DEGREASER
- PR3: COLOURED DETERGENT + DEGREASER
- PR4: NETRALISER + BISULFITE + SOFTENER
- H₂O.R: H₂O RECUPERATED
- H₂O.RP: H₂O RECUPERATED PRESS
- H₂O.L: H₂O FRESH WATER
- R1: 1st. DRAIN RECUPERATED
- R2: 2nd. DRAIN RECUPERATED
- R3: 3rd. DRAIN RECUPERATED PRESS
- OUT1: DRAIN NON RECUPERATED

WASH 1: 180"
WASH 2: 360"
WASH 3: 540"
RINSES: 720"
Total cycle: 1080" (18'00'"
1st. WASHING 1 PHASE: 90"
2nd. WASHING 2 PHASE: 720"
3rd. RINSE PHASE: 270"

Production Kgs/h: 642

PR1: COLOURED DETERGENT
PR2: SPECIAL COLOURED DEGREASER
PR3: COLOURED DETERGENT + DEGREASER
PR4: NETRALISER + BISULFITE + SOFTENER
H₂O.R: H₂O RECOVERED
H₂O.RP: H₂O RECOVERED PRESS
H₂O.L: H₂O FRESH WATER
R1: 1st. DRAIN RECOVERED
R2: 2nd. DRAIN RECOVERED
R3: 3rd. DRAIN RECOVERED PRESS
OUT1: DRAIN NON RECOVERED

TIME X MODULE: 360"
MAX. WEIGHT X MODULE: 72 Kg.

PROGRAMME
0' 180'' 3' 360'' 6' 540'' 9' 720'' 12' 900'' 15' 1080''
18'00' (1080'')
Total cycle 1080" (18’00")
1st. WASHING 1 PHASE 90"
2nd. WASHING 2 PHASE 690"
3rd. RINSE PHASE 300"

Production Kgs/h. 1.070

PR1. COLOURED DETERGENT
PR2. SPECIAL COLOURED DEGREASER
PR3. COLOURED DETERGENT + DEGREASER
PR4. NEUTRALISER + BISULFITE + SOFTENER
H₂O.R. H₂O RECEIVED
H₂O.R.P. H₂O RECEIVED PRESS
H₂O.L. H₂O FRESH WATER
R1. 1st. DRAIN RECEIVED
R2. 2nd. DRAIN RECEIVED
R3. 3rd. DRAIN RECEIVED PRESS
OUT1. DRAIN NON RECEIVED
TIME x MODULE 208"
MAX. WEIGHT x MODULE 72 Kg.

PROGRAMME

5 MODULES
Total cycle: 1020" (17'00'')
1st. PRE-WASH PHASE: 120"
Production Kgs/h: 680
2nd. WASHING 1 PHASE: 630"
3rd. RINSE PHASE: 270"

1st. 60°
2nd. 60°
3rd. 150°
Total cycle 1020" (17'00")
1st. PRE-WASH PHASE 120"
Production Kgs/h. 1.585
2nd. WASHING 1 PHASE 585"
3rd. RINSE PHASE 315"

1st. 60°
2nd. 60°
3rd. 195°

H₂O.R H₂O RECUPERATED
H₂O.RP H₂O RECUPERATED PRESS
H₂O.L H₂O FRESH WATER
PR1 WHITE DEGREASER
PR2 WHITE DETERGENT + BLEACH + WHITE DEGREASER
PR3 WHITE DETERGENT + DEGREASER
H₂O₂ (PEROXIDE)
PR4 NEUTRALISER + BISULFITE + SOFTENER
H₂O.R H₂O RECUPERATED
H₂O.RP H₂O RECUPERATED PRESS
H₂O.L H₂O FRESH WATER
R1 1st. DRAIN RECUPERATED
R2 2nd. DRAIN RECUPERATED
R3 H₂O RECUPERATED PRESS
OUT1 DRAIN NON RECUPERATED
OUT2 DRAIN NON RECUPERATED
TIME × MODULE 135°
MAX. WEIGHT × MODULE 72 Kg.
Total cycle ...1500" (25'00")...... 1rst. PRE—WASH PHASE ...180"

2nd. WASHING 1 PHASE ......1050"

3rd. RINSE PHASE ..........270"

1rst. .....60"
2nd. .....60"
3rd. .....150"
Total cycle 1500" (25'00")
1rst. PRE-WASH PHASE 180"
Production Kgs/h. 465
2nd. WASHING 1 PHASE 1050"
3rd. RINSE PHASE 270"

1rst. 60'
2nd. 60'
3rd. 150'

H₂O.R H₂O RECUPERATED
H₂O.RP H₂O RECUPERATED PRESS
H₂O.L H₂O FRESH WATER
R1 1rst. DRAIN RECUPERATED
R2 2nd. DRAIN RECUPERATED
R3 3rd. RECUPERATED PRESS
OUT1 DRAIN NON RECUPERATED
OUT2 DRAIN NON RECUPERATED
TIME x MODULE 490"
MAX. WEIGHT x MODULE 72 Kg.
Total cycle: 1500" (25'00")
1rst. PRE-WASH PHASE: 180"
Production Kgs/h.: 775
2nd. WASHING 1 PHASE: 1050"
3rd. RINSE PHASE: 270"

1rst. 60°
2nd. 60°
3rd. 150°

H₂O,R: H₂O RECUPERATED
H₂O.RP: H₂O RECUPERATED PRESS
H₂O,L: H₂O FRESH WATER
R₁: 1rst. DRAIN RECUPERATED
R₂: 2nd. DRAIN RECUPERATED
R₃: 3rd. RECUPERATED PRESS
OUT₁: DRAIN NON RECUPERATED
OUT₂: DRAIN NON RECUPERATED
TIME x MODULE: 288"
MAX. WEIGHT x MODULE: 72 Kg
Total cycle ...1500" (25'00")...... 1rst. PRE-WASH PHASE 180"

Production Kgs/h. ........1.085...... 2nd. WASHING 1 PHASE 1050"

3rd. RINSE PHASE ........270"

1rst. ...60"

2nd. ...60"

3rd. ...150"

H₂O,R  H₂O RECUPERATED

H₂O,R.P  H₂O RECUPERATED PRESS

H₂O,L  H₂O FRESH WATER

R1  1rst. DRAIN RECUPERATED

R2  2nd. DRAIN RECUPERATED

R3  3rd. RECUPERATED PRESS

OUT1  DRAIN NON RECUPERATED

OUT2  DRAIN NON RECUPERATED

TIME x MODULE ..............200"

MAX. WEIGHT x MODULE ....72 Kg...
## Technical Data Model 72

<table>
<thead>
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<th>Model</th>
<th>TL 72/2</th>
<th>TL 72/3</th>
<th>TL 72/4</th>
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<th>TL 72/6</th>
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<td>5</td>
<td>6</td>
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<td>11 r.p.m.</td>
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<tr>
<td>Length</td>
<td>4.000 mm.</td>
<td>5.000 mm.</td>
<td>6.000 mm.</td>
<td>7.000 mm.</td>
<td>8.000 mm.</td>
<td>9.000 mm.</td>
<td>10.000 mm.</td>
<td>11.000 mm.</td>
<td>12.000 mm.</td>
<td>13.000 mm.</td>
<td>14.000 mm.</td>
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<td>Width</td>
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<td></td>
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<td></td>
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<td>2.725 mm.</td>
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<tr>
<td>Electrical Power</td>
<td>11,25 kw.</td>
<td>15 kw.</td>
<td>18.75 kw.</td>
<td>22.5 kw.</td>
<td>26.25 kw.</td>
<td>30 kw.</td>
<td>33.75 kw.</td>
<td>37.5 kw.</td>
<td>41.25 kw.</td>
<td>45 kw.</td>
<td>48.75 kw.</td>
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<tr>
<td>Electrical Consumpt.</td>
<td>5,02 kw/h</td>
<td>7,54 kw/h</td>
<td>10 kw/h</td>
<td>12.6 kw/h</td>
<td>15 kw/h</td>
<td>17.6 kw/h</td>
<td>20 kw/h</td>
<td>22.6 kw/h</td>
<td>25 kw/h</td>
<td>27.6 kw/h</td>
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<td></td>
<td></td>
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<td>0.4 kgs. per Kg of Linen</td>
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<td>Steam Connection</td>
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<td>2 ½ Inches</td>
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<td>Steam Pressure</td>
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<td>2 Litres per kg of Linen</td>
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<td>1 ½ Inches</td>
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<td>0.01 Nm³/h⁻¹</td>
<td>0.02 Nm³/h⁻¹</td>
<td>0.03 Nm³/h⁻¹</td>
<td>0.04 Nm³/h⁻¹</td>
<td>0.05 Nm³/h⁻¹</td>
<td>0.06 Nm³/h⁻¹</td>
<td>0.07 Nm³/h⁻¹</td>
<td>0.08 Nm³/h⁻¹</td>
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<td>6 bars</td>
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<tr>
<td>Weight</td>
<td>3.050 kgs.</td>
<td>4.050 kgs.</td>
<td>5.050 kgs.</td>
<td>6.050 kgs.</td>
<td>7.050 kgs.</td>
<td>8.050 kgs.</td>
<td>9.050 kgs.</td>
<td>10.050 kgs.</td>
<td>11.050 kgs.</td>
<td>12.050 kgs.</td>
<td>13.050 kgs.</td>
</tr>
</tbody>
</table>
## Technical Data Model 110

<table>
<thead>
<tr>
<th>Model</th>
<th>TL110/2</th>
<th>TL110/3</th>
<th>TL110/4</th>
<th>TL110/5</th>
<th>TL110/6</th>
<th>TL110/7</th>
<th>TL110/8</th>
<th>TL110/9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nº Modules</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
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<tr>
<td>Drum Diameter</td>
<td></td>
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<td>2.010 mm.</td>
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<tr>
<td>Drum depth</td>
<td></td>
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<td>1.200 mm.</td>
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<tr>
<td>Drum Volume</td>
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<td>3.810 dm³</td>
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<td>Drum r.p.m.</td>
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<td>11 r.p.m.</td>
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<td>Module Capacity</td>
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<td>110 kgs.</td>
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<tr>
<td>Length</td>
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<td></td>
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<tr>
<td></td>
<td>5.000 mm.</td>
<td>6.500 mm.</td>
<td>8.000 mm.</td>
<td>9.500 mm.</td>
<td>11.000 mm.</td>
<td>12.500 mm.</td>
<td>14.000 mm.</td>
<td>15.500 mm.</td>
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<tr>
<td>Width</td>
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<td>Height</td>
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<td>Electrical Power</td>
<td>14 kw.</td>
<td>21 kw.</td>
<td>24 kw.</td>
<td>27 kw.</td>
<td>29 kw.</td>
<td>33 kw.</td>
<td>36 kw.</td>
<td>40 kw.</td>
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<tr>
<td>Electrical Consumpt.</td>
<td>7 kw/h</td>
<td>10 kw/h</td>
<td>14 kw/h</td>
<td>17 kw/h</td>
<td>20 kw/h</td>
<td>23 kw/h</td>
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<td>228 kw/h</td>
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<td>Steam Consumpt.</td>
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<td>0.4 kgs. per Kg of Linen</td>
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<td>Steam Connection</td>
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<td>2 ½ Inches</td>
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<tr>
<td>Steam Pressure</td>
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<td>Water Consumpt.</td>
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<td>2 Litres per kg of Linen</td>
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<td>Water Connection</td>
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<td>1 ½ Inches</td>
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<tr>
<td>Air Consumpt.</td>
<td>0.01 Nm³ h⁻¹</td>
<td>0.02 Nm³ h⁻¹</td>
<td>0.03 Nm³ h⁻¹</td>
<td>0.04 Nm³ h⁻¹</td>
<td>0.05 Nm³ h⁻¹</td>
<td>0.06 Nm³ h⁻¹</td>
<td>0.07 Nm³ h⁻¹</td>
<td>0.08 Nm³ h⁻¹</td>
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<td>Air Connection</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Inch</td>
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<tr>
<td>Air Pressure</td>
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<td>6 bars</td>
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<tr>
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<td>6.200 kgs.</td>
<td>7.500 kgs.</td>
<td>8.600 kgs.</td>
<td>9.300 kgs.</td>
<td>10.500 kgs.</td>
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</tbody>
</table>
Modules Assembly
Big Seal

Mountong tool

Seal

Ring

Steam and water entry

Seal

Ring
Modules connection

Ring

Seal

Drum 2

Drum 1
<table>
<thead>
<tr>
<th>N° of modules</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
</table>
| Length       | 500| 600| 700| 800| 900| 1000| 1100| 1200| in cm.