

Product Sales Guide T – Dryer T9

Industrial Tumble Dryers

1. Range

T9

Capacity: 9 kg

Litres: 190

Ratio: 1/21





Electrical Heating



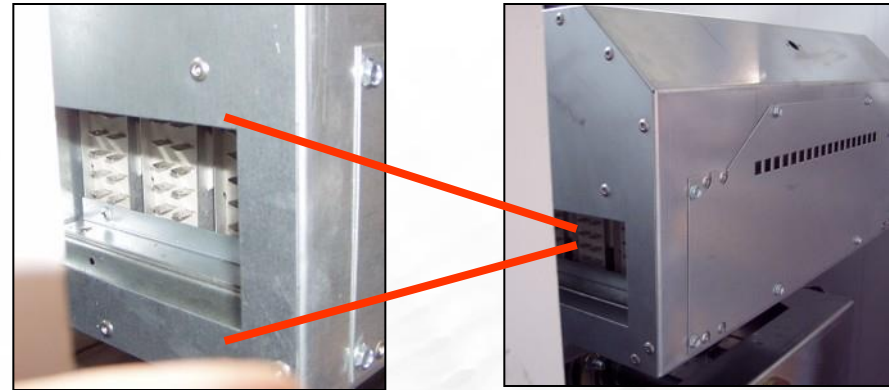
Gas Heating



STEAM HEATING IS NOT AVAILABLE

2.1 Electrical Heating

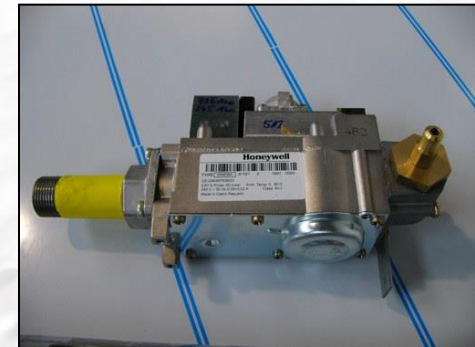
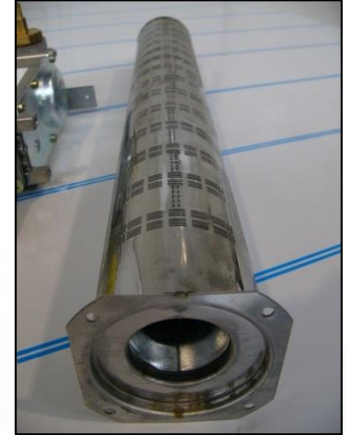
Power: T9 – 12 and 9 kW



- Battery is at the rear on T9: Easy access
- Back pannels are perforated for Air Aspiration

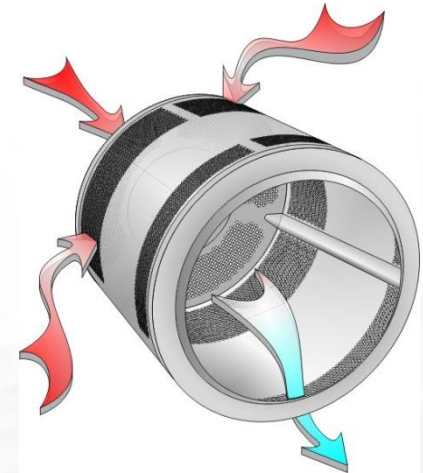
2.2 Gas Heating

- Battery is in the same position as on electrical dryer:
Easy access
- Regulated gas valve: can be regulated according to the local gas pressure
- Universal Gas burner: can work throughout whole line of dryers
- Atmospheric gas burner that is universal



3. RADAX® - Airflow

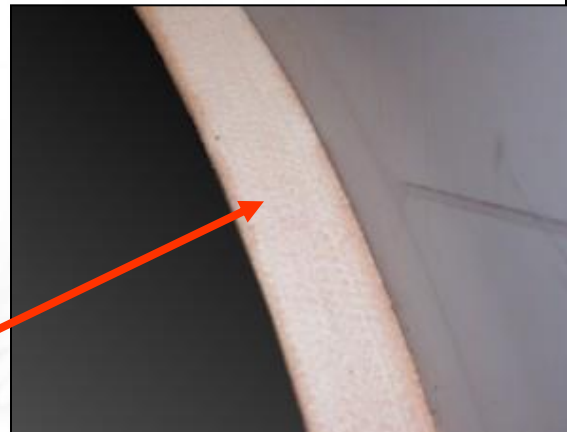
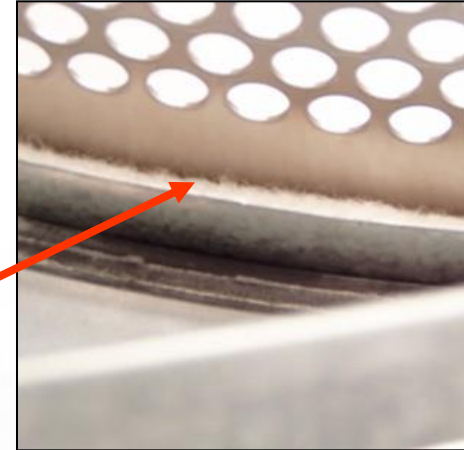
- RADAX® - Airflow: Combination of axial and radial airflow
- Less thermal losses
- The hot air has better access to the linnen
- Lower energy consumption
- Shorter drying times
- Regulating valve on the exhaust for ideal airflow
- Temperature sensor at the outlet



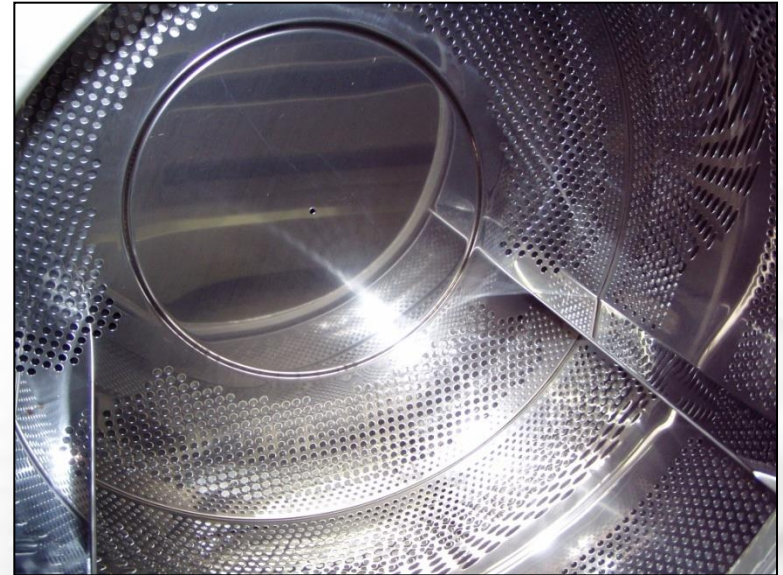
airflow
radax®

4. Seal

- **NOMEX**
- **Optimizes drying process**
- **Ideal airflow guider**
- **All the heat has to go through the drum (no energy lost)**



- **Stainless steel execution AISI 430 standard**
- **1 mm thickness: guaranteed strenght**
- **Stainless steel lifting ribs**



6. Shaft + Bearing house

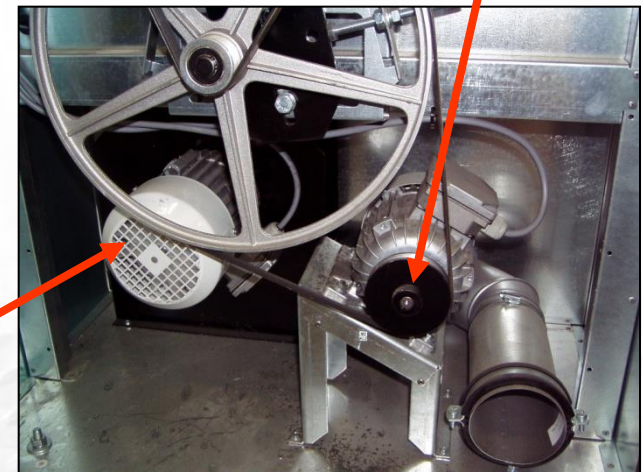
- Steel shaft - longer life span
- Overdimensioned welded cross that fixes the shaft to the drum
- Two bearings



Reversing on dryer

- Two separated motors: 1st for ventilation and 2nd for driving of the drum
- If the machine is without reversing - the factory settings and programmes correspond with that (so the user doesnot have to program anything)
- No ball - forming of the linnen

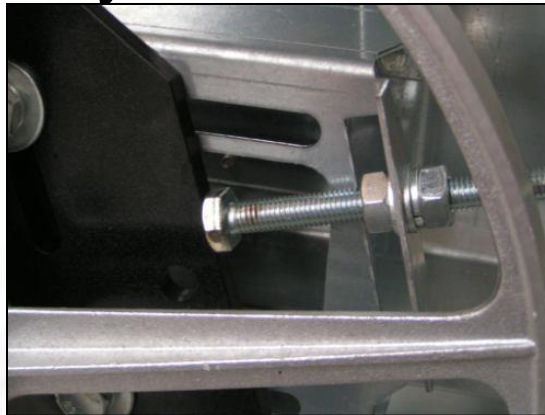
motor with reversing



ventilation

8. Pulleys

- Light Alu cast iron pulleys: quality
- Micro V-belt with teeth: for a maximum grip
- Easy replacement of the V-belts: access at the rear
- Easy tensioning of the belts:
 - 1 central tensioning system
- No belts on the drum: Easy Service

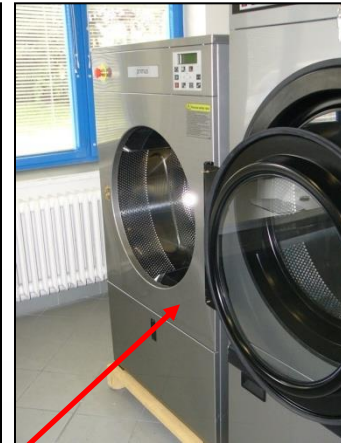


- Pre painted steel plates (SKINPLATE)
- 0,2 mm thickness coat: insulation of noise and heat
- 0,8 mm thickness of the panels
- Different front panel colours available:
 - standard INOX imitation
 - other colours optional
 - stainless steel optional



10. Door

- Huge door opening for easy loading and unloading
- Huge door diameter 600 mm for T9
- Black powder painted steel
- Door can be mounted left or right: flexibility
- 180° door opening
- Strong hinges
- Hardened glued door glass: resist to high temperatures
- Rubber seal: EPDM quality resistant to extreme conditions



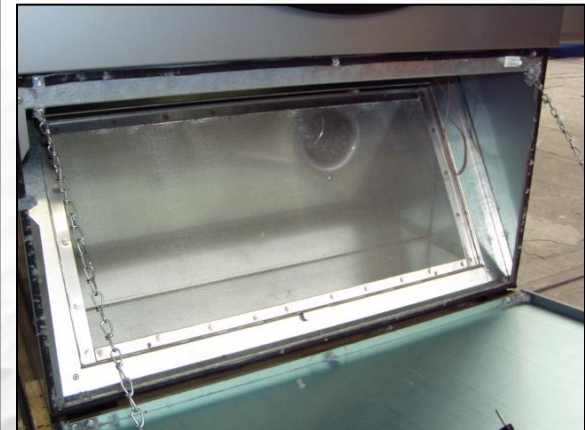
New door rubber

- No condensation
- No marking on front panel
- No dust between the rubber



11. Filter

- Strong resistant stainless steel filter
- Easy accesable through a overdimensional filter door
- Can easily be removed for cleaning



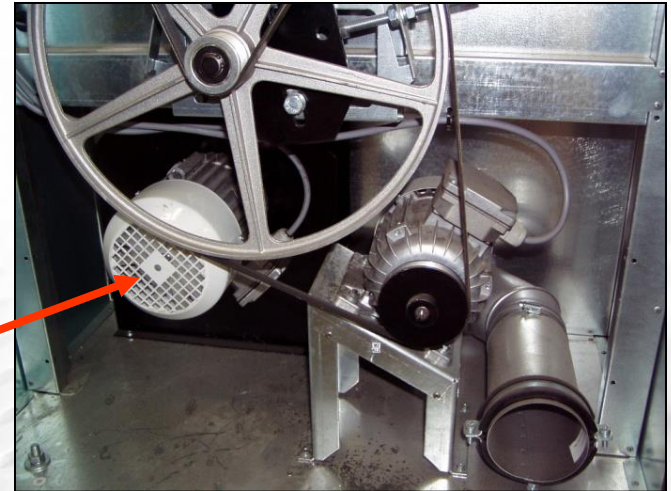
11. Filter

- Filter door easy to open



12. Ventilator

- **Overdimensioned: long piping in instalation is possible**
- **Radial ventilator of galvanized steel: stable during working conditions**
- **Balanced before mounting**



13. Safety

primus

laundry equipment

- Emergency button on the front
- Main switch at the rear
- The dryer stops:
 - 1 safety switch when opening the door
 - 1 safety switch when opening the filter door
 - 1 under pressure switch when the pressure drops considerably
- Controls the airflow conditions in the dryer
- Two safety thermostats:
 - 1 in the heating battery
 - 1 in exhaust



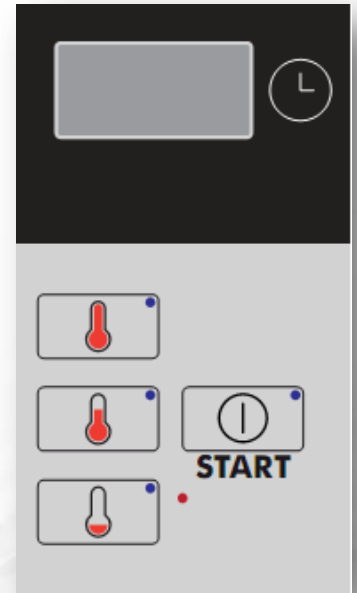
14. Noise level

- According to CE regulations
- Below 70 dB
- User friendly



15.1 Easy Control (1)

- 3 standard programmes available
- Both coin and OPL applications
- For coin: 3 programmes
- For OPL: 3 programmes
- °C or °F: temperature freely programmable
- Minimum cool down is standard: Safety software
- Blue display color

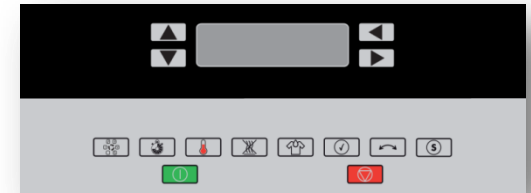


15.1 Easy Control (2)

- Error messages: on display
- Can be upgraded by a Full Control microprocessor (exchangeable)
- Time and cool down time freely programmable
- There is no Central STOP button on coin machines

15.2 Full Control (1)

- Up to 20 programmes
- 9 factory programmes (that can be changed)
- Temperature freely programmable both in °C and °F
- Drying time freely programmable
- Cool down time freely programmable
- Safety cool down time: 3-5 min.
- Reversing action time and pause can be programmed
- Silver/gray display color



15.2 Full Control (2)

- **Display:**
 - two times 16 character
 - multi - lingual: 8 (west version)
10 (east version)
 - indicates the status of the programm
 - by pressing the service button: additional information will appear
- **Error messages on display**
- **Diagnostic system: full test programm**
runs through all the functions

15.2 Full Control: SENSO - DRY®

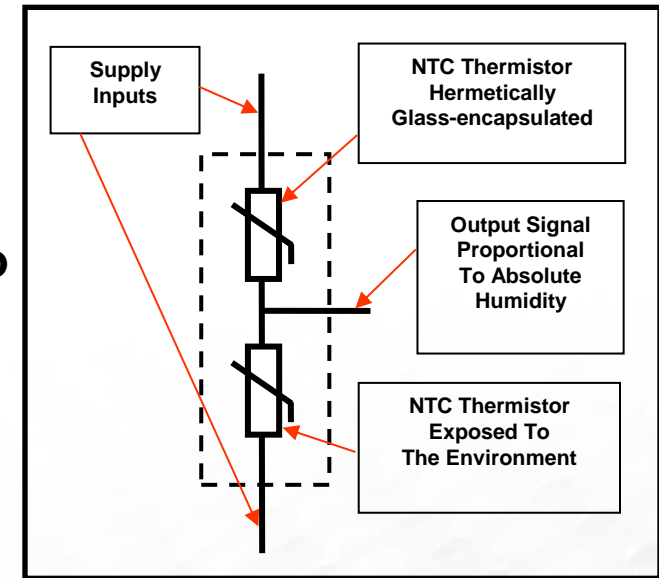
- Optional:
 - humidity control (sensor is at the outlet)
 - residual moisture control can be programmed per % humidity
 - infrared for easy downloading of programmes

 **senso.dry®**

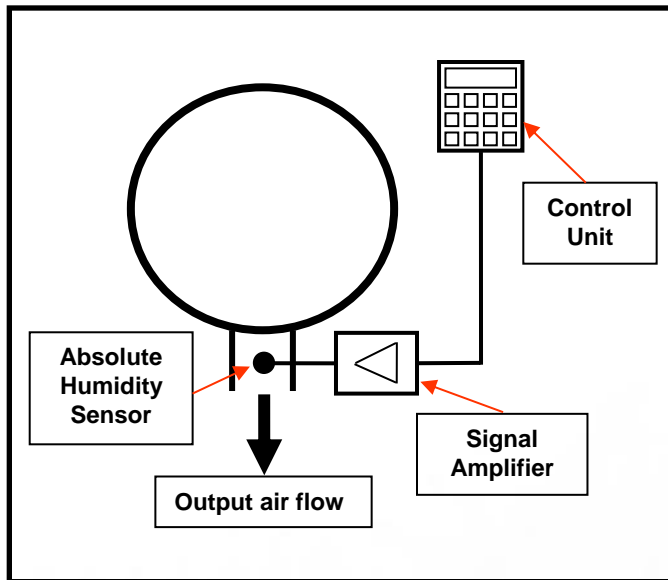
17. Absolute Humidity Sensor

● Basic Sensor Characteristics:

- The sensor makes use of thermal conductivity to measure the air moisture level
- Range: 0 - 130 g/M³ (0-100% RH)
- Operation to 200° C.
- Immune to most physical & chemical contaminants
- Operation in fully saturated environments
- Dust cap protects sensor against dust and also avoids that the air flow in the dryer affects the measurement



18. Measuring principle



Absolute Humidity Sensor

Output signal is proportional to the absolute humidity in air flow

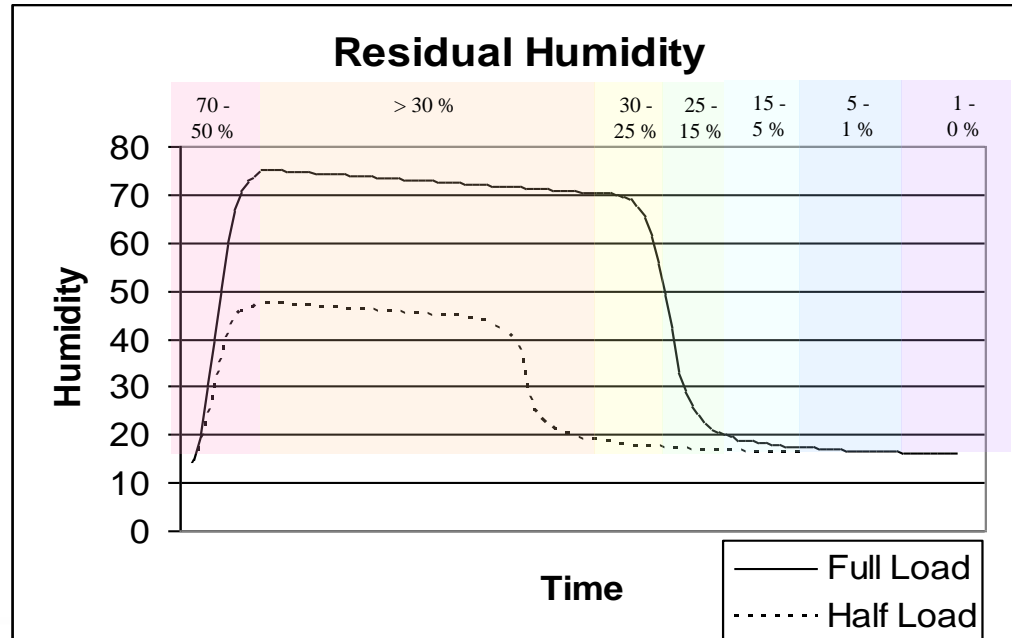
Signal Amplifier

Output signal from humidity sensor (range in millivolts) is connected to amplifier that makes stronger signal resistant against electrical noise in machine.

Control Unit

signal from humidity sensor is evaluated and used for controlling drying process

19. Evaluation principlee



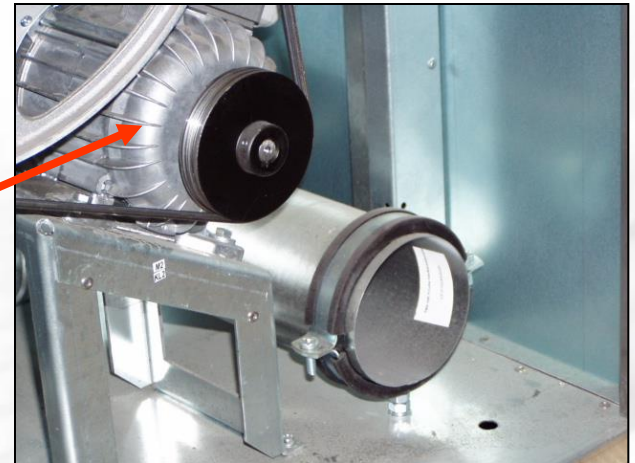
First area: drying process is started -The residual humidity of the linen can't be determined yet.

Second area: >30% - the drying process reaches target temperature - The residual humidity of the linen can't be determined yet.

Third-seventh area 30-0% - The range to program the residual humidity value is between 30 and 0%

- Two main systems for measuring the residual humidity of the linen.
- **Measuring by the ribs in the drum => direct method**
- **Measuring the air humidity => indirect method**
 - The measurement system is quite simple.
 - The kind and amount of fabrics doesn't matter as we measure the humidity of the air.
 - The special shape of the moisture curve makes that we can determine in an accurate way the residual humidity of the fabrics.
- Wet cleaning – use short drying times where humidity sensor is not applicable

- 3 phase or 1 phase has to be specified
- Voltage needs to be specified
- 50 or 60 Hz needs to be specified



22. Dimensions

- Small width for easy transport and installation
- Compact: Space saving



23. Uniformity

- Uniform look throughout the Primus range
- Consistency in the Micro-processor



24. Easy service

- **Easy access to all parts**
- **Lots of standardized parts throughout the range**

25. Think Big – Full range



1. RADAX® - Airflow

- ✓ Combination of axial and radial airflow => Shorter drying times

2. Nomex

- ✓ Optimizes drying process

3. Full Control: SENSO - DRY®

- ✓ residual moisture control can be programmed per % humidity

4. Ergonomic design for user & operator

- ✓ 180° door opening, Strong hinges, door diameter 600 mm for T9, Easy access to all parts

5. Full Control

- ✓ Up to 20 programmes, Drying time freely programmable

Several language
versions:

English
German
French
Spanish
Italian
Dutch
Czech
Russian



www.primuslaundry.com