

primus®

SALES GUIDE for TX9 Line Industrial Tumble Dryers



GET AHEAD IN LAUNDRY

TX Line: Industrial Tumble Dryers

- Anthracite grey skin plate
- Inox top panel (TX9)
- Cabinet designed to perfectly match FX80 washer-extractors
- Inox door and front (Optional)



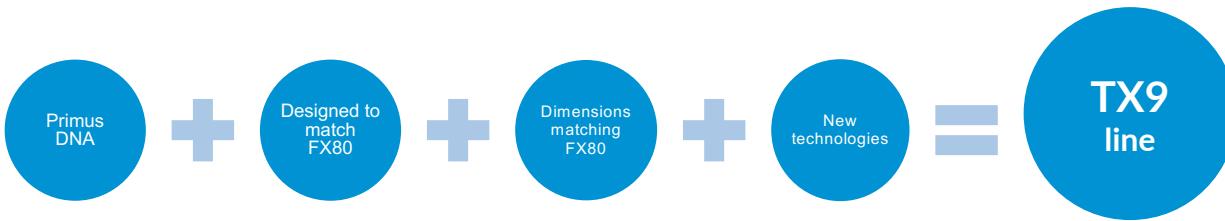
TX9

TX9HP

What makes the TX9 unique

PRIMUS DNA

The feedback of our customer has lead us to create a complete New Industrial Tumbler inspired from our best seller FX line, the aesthetics and some of its technology have been applied for the first time in dryers



ATTRACTIVE DUO

As a result, the new TX9 tumble dryer perfectly matches the FX80 Washer-extractor, in terms of aesthetics and dimensions.

This attractive duo is the perfect offer for small to medium size laundry installations.



General Specifications and Comparison

Electric Version



	T9 EL	TX9 EL
Net	H x W x D	1465 x 795 x 815 mm
	Weight	170 kg
	Footprint	0,648 m ²
Packed	H x W x D	1253 x 752 x 970 mm
	Weight	135 kg

Heat-pump Version

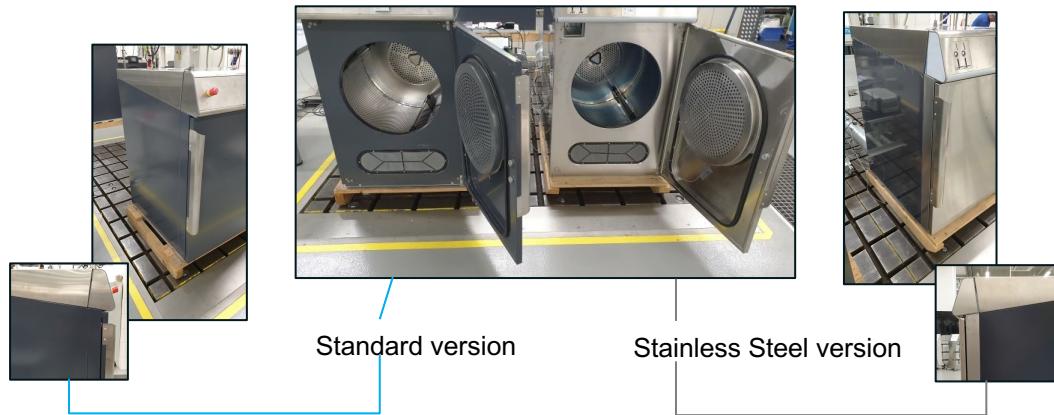


	T9 HP	TX9 HP
Net	H x W x D	1465 x 795 x 1275 mm
	Weight	290 kg
	Footprint	1,014 m ²
Packed	H x W x D	1815 x 752 x 970 mm
	Weight	208 kg

CABINET VERSIONS – TX9 Electric

	Electric
Door	Anthracite grey skinplate (option: inox)
Front panel (behind the door)	Anthracite grey skinplate (option: inox)
Side panel	Anthracite grey skinplate
Top panel	Inox

- Design & cabinet perfectly matching FX80 washing machines
- Height and width copy paired to Primus FX80
- Nose shaped control panel (alike FX80)
- Inox door and front optional



CABINET – TX9 Heat Pump

- Straight control panel shape
- Heat pump box under the drum
- Access to the heat pump box/unit from the front
- Focused on minimizing consumption



New heat pump system helps to save space needed for installation in terms of depth by 350 mm



Footprint reduced by 0,36 m²

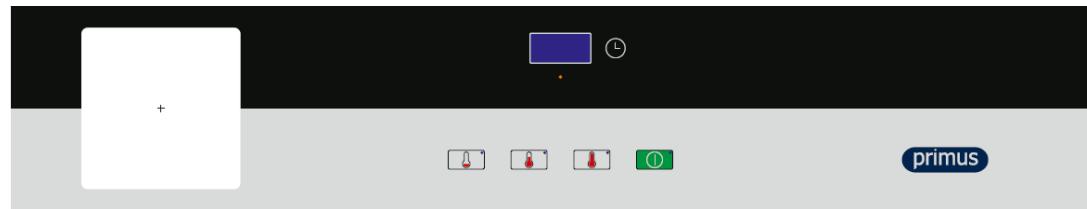


	Heat pump
Door	Anthracite grey skinplate (option: inox)
Front panel (behind the door)	Anthracite grey skinplate (option: inox)
Side panel	Anthracite grey skinplate
Top panel	Anthracite grey skinplate
Front panel covering HP	Anthracite grey skinplate (option: inox)
Side panels covering HP	Anthracite grey skinplate

Control Overview

Easy control

- Vend and OPL
- 3 programs
- Temperature freely programmable (Celsius or Fahrenheit)
- Intuitive control easy to use with simple selection



Drum

The TX9 drum offers a higher efficiency and shorter drying cycle, thanks to an innovative combination of a deeper drum with special shape.

- Customers can choose between galvanized or inox material type of the drum

	Electric	Heat pump
Drum volume	195 L	
Drum diameter	670 mm	
Drum depth	555 mm	
Airflow	Axial	
Baffles	3	



TX9 has +32% deeper drum for longer and more efficient air flow than T9 model



Drive System

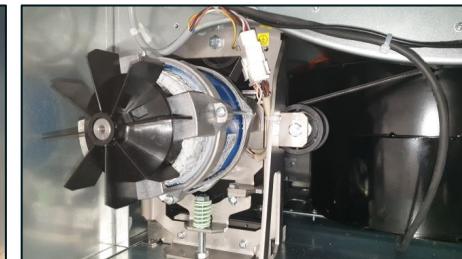
- Direct belt system rotating drum
- Motor power: 0,25 kW



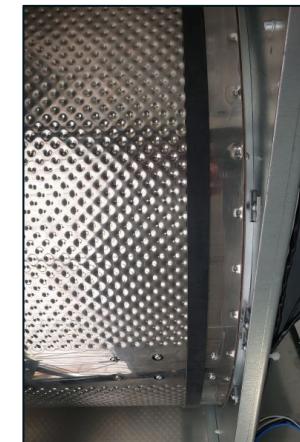
Shaft



Supporting rolls



Drive system



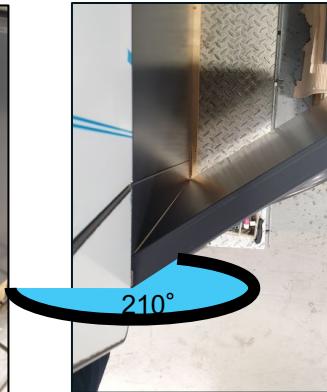
Belt system



Motor is +39% more powerful than previous version (T9)

Door Opening & Handle

- Large door opening => 500 mm
- Wide opening angle 210°
- Reversible door (right opening per default)
- 2 magnets keep the door perfectly closed to secure the airflow
- Stainless Steel ergonomic handle



Top View of the
door opening angle

Door magnets

Heating

ELECTRIC VERSION

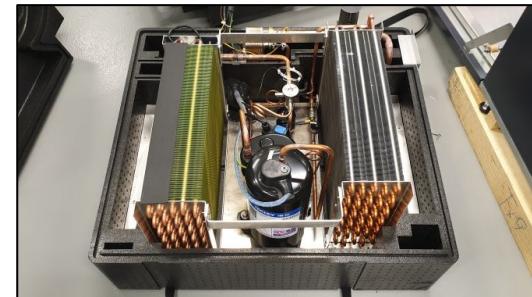


- Electric box ready for kW rating change (easy modifiable)
- Higher rating : from 9 up to 12 kW
- Lower rating: from 12kW down to 6kW without limitation
(12 -> 9 -> 6 kW)

Heating power	(kW)	6 / 9 / 12
Total power supply	(kW)	6,4 / 9,4 / 12,4

⚙ Heating power can be quickly modified thanks to the easy access to the electrical heating box

HEAT-PUMP VERSION



Heating power	(kW)	1,5
Total power supply	(kW)	2

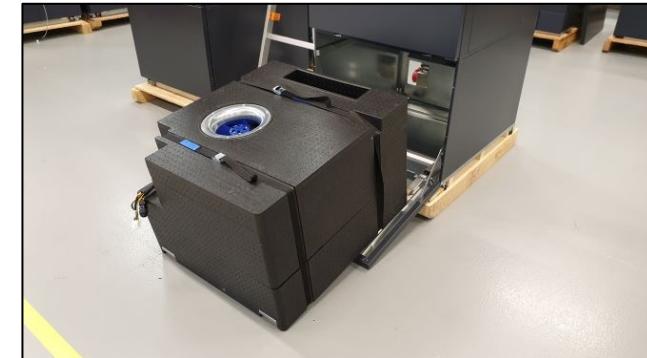
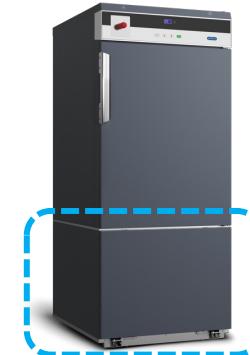
⚙ TX9 (HP) can reach temperature up to 70° C (= +7° C higher than T9)

Heat Pump System

- All new heat pump system, placed under the drum
- Vertical position of heat exchangers with horizontal air flow
- Easy removable and replaceable heating unit
- Water cooled system
- No influence of ambient temperature on drying time
- Full enclosure = ↑ insulation = ↓ noise

	Heat pump
Heat pump power	1,5 kW
Total power	2 kW
Refridgerant type	R134A
Amount of refridgerant	1,1 kg

 New heat pump system has about 41% lower total power input = less energy demanding

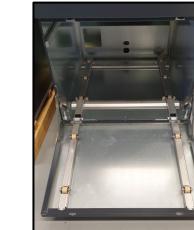
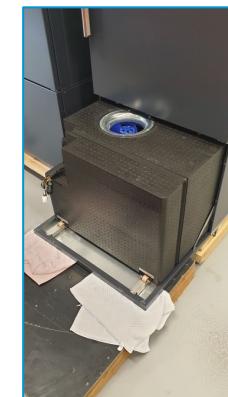


Heat Pump System – Box Extraction

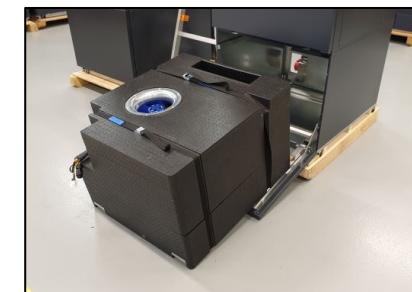
- Simple pull out system
- Quick and easy cable connection (easy access)
- Guiding rails with rollers, to extract the Heat Pump Box
- Bar holders keep the box in correct position when pulling it out



Positioning bar



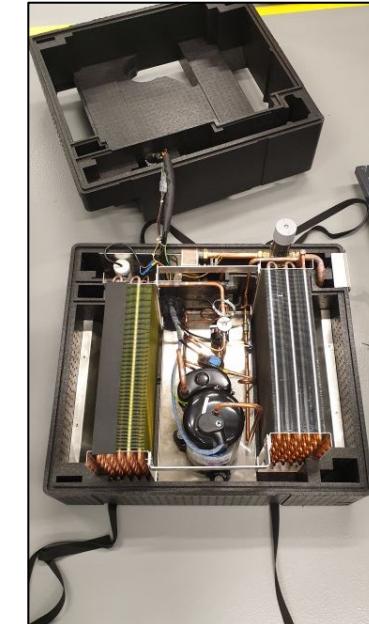
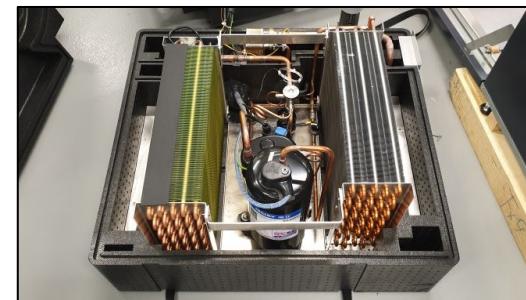
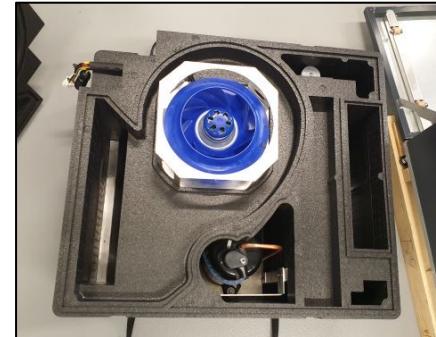
Guiding rolls



In just 6 minutes the
heat pump system can
be replaced if needed.
This action can be only executed by a
certified technician.

Heat Pump System - Box

- Box made of Extruded Polypropylene (EPP)
- 3 parts combined
- Simple opening in case of maintenance
- Weight 55 kg

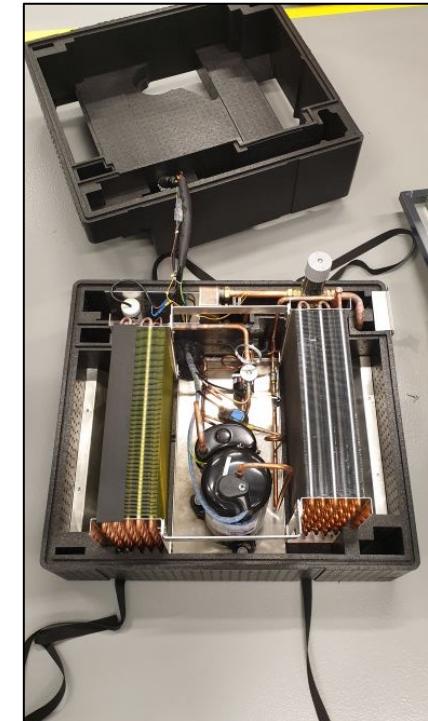
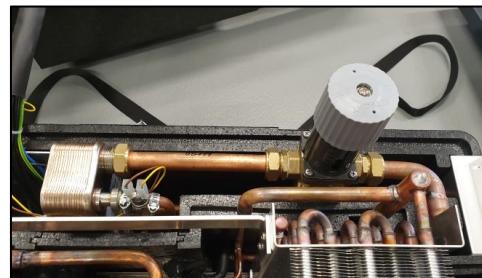


Light and very easy to access for yearly maintenance

Heat Pump System – Water Cooled System

- Water cooled HP system
- Required connection to water supply
- 1x $\frac{3}{4}$ " in and 1x $\frac{3}{4}$ " out for water
- No influence of ambient temperature compared to air cooled systems
- Consumption: 4,3 L / cycle*

* Measured for fully pressurized unit



Lint Filter

VERTICAL LINT FILTER

- Still simple surface cleaning (wipe off)
pore size 170 µm* for Electric and Heat pump versions

*human hair : 17 µm to 181 µm

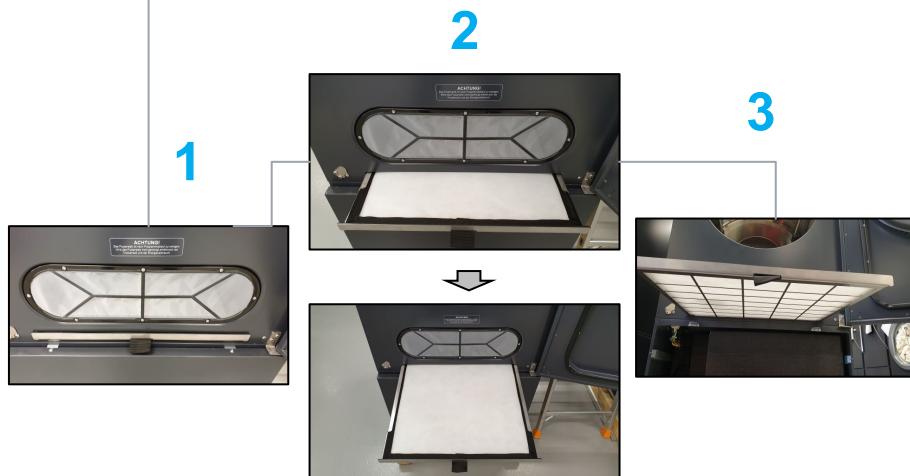


TRIPLE FILTRATION

Additional 2 filters in the HP version only.



- Slidable (upper side):
 - Pore size 130 µm
- Slidable (bottom side):
 - Filters for coarse dust particles (filtration class G3)
 - Efficient for particles ≥ 10 µm (pollen, sand, textile fibres, hairs, etc.)



 The triple filtration system keeps the heat pump unit in the best condition

Inlets / Outlet

ELECTRIC VERSION



1x
150mm

Outlet for exhaust

HEAT-PUMP VERSION



Water cooling:

1x
3/4"

Fresh water intake (water cooling)

1x
3/4"

Water drainage (water cooling)

Drainage:

1x
16 mm

Drainage of condensed water

Vend Version

- Both options available, Coin and Central payment
- Coin meters available:
 - Single mechanical
 - Dual mechanical
 - E-drop
- Coin / token acceptor of over 130 currency types



More currencies / tokens upon request



Voltage

	Voltage	Motor kW Fan / Drive	Heating Power supply - kW	Total power supply kW	Nominal current	Fuse	Cable cross-section - registered	Cable diameter	Bushing
Electric	3x 380-415V +N 50/60Hz	0,25 / 0,25	6	6,5	10,5 A	16 A	4 x 2,5	14,5mm	M25
	3x 380-415V 50/60Hz				10,5 A	16 A	4 x 2,5	14,5mm	M25
	3x 220-230V 50/60Hz				17,8 A	25 A	4 x 4	17mm	M25
	3x 240V 50Hz				17,9 A	25 A	4 x 4	17mm	M25
	3x 440V 60Hz				13,8 A	20 A	4 x 2,5	14,5mm	M25
	3x 380-415V +N 50/60Hz	0,25 / 0,25	9	9,5	14,9 A	20 A	4 x 2,5	14,5mm	M25
	3x 380-415V 50/60Hz				14,9 A	20 A	4 x 2,5	14,5mm	M25
	3x 220-230V 50/60Hz				25,6 A	32 A	4 x 6	20mm	M32
	3x 240V 50Hz				25,8 A	32 A	4 x 6	20mm	M32
	3x 440V 60Hz				14,0 A	20 A	4 x 2,5	14,5mm	M25
Heat pump	3x 380-415V +N 50/60Hz	0,25 / 0,25	12	12,5	19,6 A	25 A	4 x 4	17mm	M25
	3x 380-415V 50/60Hz				19,6 A	25 A	4 x 4	17mm	M25
	3x 220-230V 50/60Hz				33 A	40 A	4 x 6	20mm	M32
	3x 240V 50Hz	0,17 / 0,25	2	2	33,5 A	40 A	4 x 6	20mm	M32
	3x 440V 60Hz				17,6 A	25 A	4 x 4	17mm	M25
	3x 380-415V+N 50Hz				11 A	16 A	5 x 2,5	16mm	M25
	3x 220-240V 50Hz				12,3 A	16 A	4 x 2,5	14,5mm	M25

* regardless kW

Certifications



Now available:

CE

- *CE logo on the serial plate*



Drying Performance

		NEW				NEW	
		ELECTRIC				HEAT PUMP	
LINNEN - ACCORDING TO ISO9398-2:2003 100% COTTON TOWELS		T9	TX9E	TX9E	TX9E	T9HP	TX9HP
Rated capacity (1:18)	kg	10,58	10,83	10,83	10,83	10,58	10,83
(1:25)	kg	7,62	7,8	7,8	7,8	7,62	7,8
Drum volume	litre	190,5	195	195	195	190,5	195
Drum diameter	mm	760	670	670	670	760	670
Total Power	kW	12,00	12,00	9,00	6,00	3,39	2,00
Rated load	kg	9,00	9,00	9,00	9,00	9,00	9,00
Related filing ratio	1:XX		21,67	21,67	21,67	21,17	21,67
Total dry cycle time from (55±1)% initial humidity to (8 ^{+1,-0})% (0min cool down time)	min	29,55	22,89	28,07	38,30	42,40	48,19
Time, when heating is off	min	0,00	0,00	0,00	0,00	0,00	0,00
Energy consumption at rated load	kWh	5,91	4,70	4,60	4,37	2,40	1,82
Average Start Humidity	%	54,6%	55,0%	55,6%	54,4%	55,28%	54,5%
End Humidity	%	9,0%	9,0%	9,0%	9,0%	8,00%	8,00%
Evaporated H ₂ O	l	4,10	4,14	4,19	4,09	4,26	4,18
Evaporation	g/min	138,76	180,87	149,28	106,66	100,36	86,81
Energy kWh/litre water evaporated	kWh/l	1,44	1,14	1,10	1,07	0,56	0,43
Energy kWh/1kg of load	kWh/kg	0,66	0,52	0,51	0,49	0,27	0,20


Drying time

- 6,5 minutes (12 kW)
- 1,5 minutes (9 kW)


Energy consumption

- 1,2 kWh (12 kW)
- 1,3 kWh (9 kW)


Evaporation efficiency

- + 42,11 g/min (12 kW)
- + 10,52 g/min (9 kW)


Energy consumption

- 0,58 kWh (HP)

Comparison

		ELECTRIC					HEAT PUMP					
		ALS				Electrolux	ALS		Miele			
LINNEN - ACCORDING TO ISO9398-2:2003 100% COTTON TOWELS		T9	TX9E	TX9E	TX9E	T5190	T9HP	TX9HP	8257 WP	T4300 LE	T5190 LE	
Rated capacity (1:18)	kg	10,58	10,83	10,83	10,83	10,56	10,58	10,83	13,89	16,67	10,56	
(1:25)	kg	7,62	7,8	7,8	7,8	7,06	7,62	7,8	10,00	12,00	7,06	
Drum volume	litre	190,5	195	195	195	190	190,5	195	250	300	190	
Drum diameter	mm	760	670	670	670	680	760	670	?	760	680	
Total Power	kW	12,00	12,00	9,00	6,00	8,00	3,39	2,00	5,00	1,60	1,95	
Rated load	kg	9,00	9,00	9,00	9,00	9,00	9,00	9,00	10,00	13,60	9,00	
Related filing ratio	1:XX		21,67	21,67	21,67	21,11	21,17	21,67	25,00	22,06	21,11	
Total dry cycle time from (55±1)% initial humidity to (8±1)% (0min cool down time)	min	29,55	22,89	28,07	38,30	32,84	42,40	48,19	44,00	73,72	50,99	
Time, when heating is off	min	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
Energy consumption at rated load	kWh	5,91	4,70	4,60	4,37	4,16	2,40	1,82	2,95	2,96	1,66	
Average Start Humidity	%	54,6%	55,0%	55,6%	54,4%	55,3%	55,28%	54,5%	50,0%	55,6%	55,3%	
End Humidity	%	9,0%	9,0%	9,0%	9,0%	8,0%	8,00%	8,00%	0,0%	8,0%	8,0%	
Evaporated H ₂ O	l	4,10	4,14	4,19	4,09	4,26	4,26	4,18	5,00	6,47	4,26	
Evaporation	g/min	138,76	180,87	149,28	106,66	129,57	100,36	86,81	113,64	87,81	83,45	
Energy kWh/litre water evaporated	kWh/l	1,44	1,14	1,10	1,07	0,98	0,56	0,43	0,59	0,46	0,39	
Energy kWh/1kg of load	kWh/kg	0,66	0,52	0,51	0,49	0,46	0,27	0,20	0,30	0,22	0,18	



Leaflet data

Competitive Facts

TX9 Electric version

-  Attractive design to perfectly match FX80 washer-extractors
-  Faster drying cycle by up to 6,5 minutes
-  Lower energy consumption by up to 1,3 kWh
-  Higher evaporation efficiency by up to 42,11 g/min
-  Heat kW modifiable by kits
-  + 39% more powerful drive system motor
-  Choice of galvanized or inox drum

*Vs previous generation, Duration of total dry cycle time from (55±1)% initial humidity to (8+1 -0)% with no cool down time. Test performed in our lab according to ISO9398-2:2003 standard for 100% cotton towels, with 12Kw.

Competitive Facts

TX9 Heat Pump Version

- ↗ Compact design reducing footprint by 0,36 m²
- ⚙ Easy access to the Heat Pump unit from the front of the machine
- ⌚ Heat Pump unit replaceable within 6 minutes if needed
- 〽 Lower energy consumption by up to 0,58 kWh
- ⚙ Efficient triple lint filtration system
- 🌡 The length of the cycle is not affected by the external high environmental temperature
- 🚩 Choice of galvanized or inox drum

Options

- Stainless steel front
- Inox drum
- Drum reverse
- Heating power from 6 kW up to 12 kW for electric heat
- SensoDry, moisture sensors technology
(n/a for heat pump version)
- Vend actuation

(Single / Dual mechanical or Electronic coin meters; Prep for Central pay)



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