

# T-9

## MAKE IT EASY

T-9 is a new front end machine featuring TOMRA Flow Technology™ - the world's first 360 degree recognition system in a reverse vending machine.

T-9 solves core tasks in completely new ways providing unique benefits to new as well as existing customers. It is the first of a new generation that will redefine industry standards leaving you prepared for today and tomorrow.

- + Faster than ever
- + Easier to keep clean
- + Prepared for other types of beverage packaging
- + Perfect for customization



### FASTER

The T-9 instantly reads barcodes and security marks without rotation stops, allowing the user to insert containers in a rapid continuous flow, increasing convenience and peak-hour capacity.



### CLEANER

Smart design and intuitive interfaces reduce the need for cleaning and at the same time make the machine easier to clean



### TAKES ALL

TOMRA Flow Technology™ handles containers other technologies can't. This opens new possibilities for what can be collected —even new material fractions in future recycling schemes.



T-9 is equipped with TOMRA Flow Technology™, the world's first 360 degree instant recognition system in a reverse vending machine. TOMRA Flow Technology™ ensures a unique level of operational efficiency and reliability, and the most flowing user experience.

# T-9 Bottle

Dimensions		Compatibility		
		<p><b>T-9 is compatible with:</b></p> <p><b>MultiPac™</b> High-performance system for high volumes of mainly non-refillable containers</p> <p><b>ProPac™</b> Flexible system for a low to modest mix of refillable and non-refillable containers</p>		
<p><b>Bottle machine</b> Weight: 119 kg Footprint: 0.36m<sup>2</sup></p> <p><b>Optional</b> Steel wall frames (in cabinet color) Width: + 100mm each side</p>				
Container specifications	Speed capability	Environmental	Electrical	Connectivity
<p><b>Bottle size</b> Diameter 50-130mm, Height 85-380mm</p> <p><b>Can size</b> Diameter 50-100mm, Height 80-200mm</p> <p><b>Glass, plastic and cans (steel and aluminum)</b></p>	<p><b>Shape &amp; barcode reading</b> Up to 60 containers per minute</p>	<p><b>Humidity</b> Maximum 90% relative humidity, non-condensing.</p> <p><b>Temperature</b> +10°C to +40°C</p> <p>The machine has been designed for indoor use only.</p>	<p><b>Power consumption</b> Idle 48W</p> <p><b>Mains</b> 230 V AC 1-phase w/ground 50 Hz, min 10A, max 16A</p>	<p>LAN (Ethernet TCP/IP) interface</p> <p>POS compatible</p>

Models	Recognition	User interaction	Door colors
<p>Bottle machine</p> <p>Combi machine (Bottle and Crate)</p>	<p><b>TOMRA Flow Technology™</b></p> <p><b>For both refillable and non-refillable</b></p> <p>Barcode recognition Shape recognition Full container detection Metal detection</p> <p><b>Optional</b> Security mark recognition in addition</p>	<p>10,4" high resolution color touch display</p> <p>User guidance in display Video and sound Includes TOMRAPlus BASE Prepared for TOMRA Value Adding Services</p>	<p>Acrylic sheet, one side glossy, one side matt (door)</p> <p><b>Standard colors:</b> Light grey NCS S3005-R80B Dark grey NCS S7005-R80B Red NCS S1580-Y90R Black ALTUGLAS 121 48000</p> <p>Custom color and décor print upon request</p>

We reserve the right to make changes to specifications without prior notice. While every effort has been made to ensure all information contained in this document is accurate, TOMRA assumes no liability for any errors, inaccuracies or omissions that may occur.

## LEADING THE RESOURCE REVOLUTION

35 billion used beverage containers are captured every year by TOMRA's reverse vending machines. TOMRA's total avoided greenhouse gas emission equals the annual emissions from 2 million cars—each driving 10,000 kilometers.



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### LEGAL COMPLIANCE

This product is CE-marked in accordance with the following directives:  
2006/42/EF, Machinery, including Electric Safety 2004/108/EC, EMC (Electromagnetic Compatibility)  
2011/65/EC, RoHS (Restrictions of Hazardous Substances)  
It also complies with the directives:  
2002/96/EC, WEEE (Waste Electrical and Electronic Equipment)



**TOMRA CERTIFICATION**  
This product is developed and produced according to ISO standards 9001 and 14001



# T-9: THE FIRST OF A NEW GENERATION OF MACHINES

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- On 23<sup>rd</sup> September 2013, TOMRA presented the first machine of the **new generation** of machines to come
- T-9 features the first **360 degree recognition** system applied in an RVM and a completely new industrial design
- The machine is **faster, cleaner** and **takes all** types of beverage containers
- **The launch has been successful**
  - Several machines already installed in core markets
  - Key product for replacement sale in e.g. Germany

**TOMRA is setting the standard for reverse vending for the next decade**

