

TOMRA ReAct

CREATING VALUE THROUGH CONSUMER DIALOGUE

TOMRA ReAct extends the reverse vending experience by identifying the user and bringing the act of recycling into the user's social media and digital life. TOMRA ReAct makes recycling not only important and good, but also relevant and fun.



TOMRA ReAct

TOMRA ReAct	TOMRA ReAct users can
<ul style="list-style-type: none"> + Is an integrated system of software products that extends the core functionality of TOMRA reverse vending machines. + Provides ways of identifying the user and bring the act of recycling into the users' social media space and digital life. <ul style="list-style-type: none"> - On-screen login - QR code scan with Smartphone app - Card systems + Can be used in addition to the deposit receipt, or as a stand alone incentive platform in non-deposit markets. 	<ul style="list-style-type: none"> + Create and maintain a personal recycling profile; earn points and rewards, win badges and titles, participate in recycling competitions, receive offers from programme partners. + Document and share their recycling activities with friends, family and the public through social media, stimulate others to participate.



Flexible implementation

TOMRA ReAct may be implemented in its native design and with standard features, or as a highly customizable solution in order to meet the needs of partners, customers and collaborators.

User channels

Users can access their TOMRA ReAct accounts through the user channels;

Smartphone



Available on the  

RVM touch screens



Web



<http://react.tomra.com/>

TOMRA ReAct is compatible with most modern TOMRA reverse vending machines, but RVM with touch screen is required for on-screen user identification. IP connectivity and up to date RVM software is required. The ReAct smartphone app is available for iOS and Android.

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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UNO

COMPACT COLLECTION

UNO is a cost-efficient and convenient InPac™ solution for automated collection of low volumes of non-refillable and refillable containers.

UNO has all functionality integrated in the cabinet and can be plugged directly into standard electrical outlet, making it ideal to implement automated collection in new places yet occupying minimal space.



COST-EFFICIENT CONTAINER HANDLING

- Focused selection of details and modules to keep price low
- Low investment level enabling automated handling
- Ideal for on-the-go locations like gas stations, convenience stores, hotel lobbies, etc.

SMART AND SPACE-SAVING

- Freestanding and with a small footprint the UNO is easy to place in any location
- Smart technology pushes containers to all free space inside to maximize storage capacity
- Can sort two fractions if desired

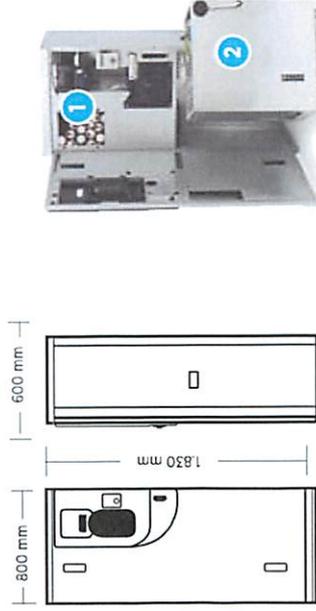
CONVENIENT AND HYGIENIC

- Plug & Play installation
- The areas that need cleaning are clearly marked
- Easy to empty all storage compartments
- Most common commands easily available through colored buttons



UNO

Dimensions



Machine weight:
140 kg
Footprint: 0.48m²

Dimensions		Storage capacity (appr. figures with shakedown)	
		UPPER STORAGE (1)	
Cans:		250 cans (0.33l)	
PET:		175 bottles (0.5l)	
PET:		60 bottles (1.5l)	
		LOWER STORAGE BIN (2)	
		Bag rack	SoftDrop™
Cans:		280 cans (0.33l)	250 cans (0.33l)
PET:		250 bottles (0.5l)	200 bottles (0.5l)
PET:		90 bottles (1.5l)	75 bottles (1.5l)

Container specifications	Speed capability	Environmental	Electrical	Connectivity
Fractions: Non-refillable PET, can and glass (no compaction) Refillable bottles can be accepted with the Soft-Drop™ bin Container size Diameter 50-115 mm, Height 80-380 mm	Shape & barcode reading Up to 15 containers per minute	Humidity Maximum 90% relative humidity, non-condensing. Temperature 0°C to +40°C (32°F - 104°F) The machine has been designed for indoor use only.	Power consumption Idle 40W, Max 500W Mains 110-260 V AC 1-phase w/ground 50/60 Hz, min 10A, max 16A	LAN (Ethernet TCP/IP) interface

Configurations	Recognition	User interaction	Door colors	Accessories
Internal SoftDrop™ or Bag rack Freestanding, front unload	Shape Barcode	Text display User guidance in display Includes TOMRAPlus BASE Prepared for TOMRA Value Adding Services	Standard colors: Light grey steel	Extended protection kit ISDN GPRS Electronic receipt (POS)

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LEGAL COMPLIANCE
This product is CE-marked in accordance with the following directives:

2006/42/EC Machinery, including Electric Safety 89/336/EEC, 92/31/EEC, 93/68/EEC (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



TOMRA PLUS PUTS YOU IN CHARGE

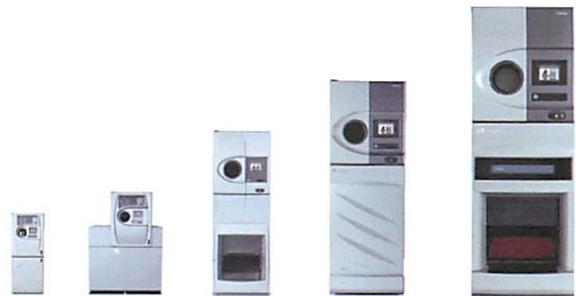
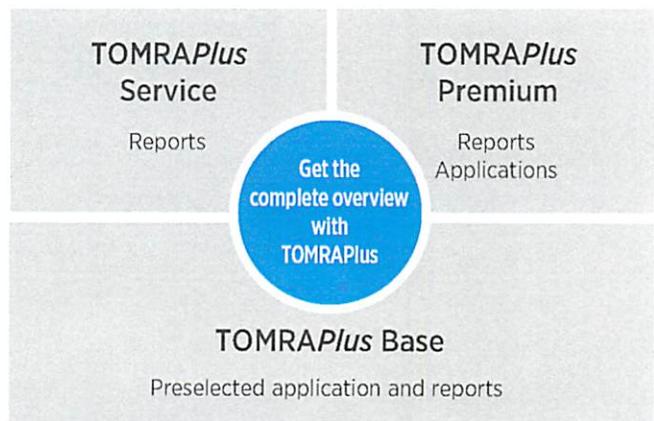
TOMRA*Plus* gives you a direct real-time connection to your reverse vending systems with functionalities that will leverage the potential value of your fleet. Whether your fleet includes a few machines or numerous systems across several stores, they can all be managed from one point which is easily accessed with a unique login via a standard web-browser.

MORE CONTROL

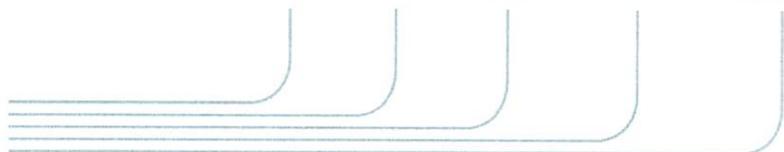
When in, a comprehensive overview of how your machines perform, their status and how they are maintained on a daily basis are just a few clicks away. And you don't need to be an expert in data analysis; reports generation tools and drill down functionality make data accessible and easy to present.

A VIABLE MARKETING CHANNEL

With TOMRA*Plus*, utilization of the reverse vending solution for branding and promotion purposes is raised to a new level. Since the reverse vending solution most often is placed in the store front where all customers pass, it's a prime placing for reaching many. And as the customers interact with it, their attention is already grabbed. Increase the relevance and motivation for use by adding dynamic promotions in the display, customize your donation receivers, use couponing. Manage them all from TOMRA*Plus*!



TOMRA | Plus



Add you own promotion videos and pictures in the display.

TOMRA
Cleaning - Daily Status
This report shows daily cleaning status for last 7 days

17/05/13 - 23/05/13

OK(✓) Cleaning completed (dirty pixels 10 or lower)
OK(?) Cleaning aborted
- No cleaning

Store number	Store name	Machine model and serial no	Last Cleared	18. May	19. May	20. May	21. May	22. May	23. May	24. May
				Sat	Sun	Mon	Tue	Wed	Thu	Fri
2	Default Store	T800-60430516		-	-	-	-	-	-	-
100	Mas bukk	T800-604301837		-	-	-	-	-	-	-

The reporting function in TOMRA*Plus* facilitates preventive measurements and control.

TOMRA PLUS

Requirements	Machine connection	WEB Browser
All NXT type RVMs supported (T-600 and newer)* Main SW 6.17.0 / 5.36.0 required	An internet access on http & https ports (tcp 80 and 443) is needed from the RVM to www.tomraplus.com Existing front end servers can be used	Internet Explorer Firefox Chrome

* See table below for compatibility



AVAILABLE FUNCTIONS WILL DEPEND ON MACHINE MODEL

Compatibility	Promotion	Coupon	Donation	Reports
Touch Display	X	X	X	X
Colour Display	X	X		X
B/W Display/ 1-2 lines		X*		X

- + *) Must have printer TTP - 1020 or TTP - 2020
- + Some of the functions require certain technology, thus not all functions can be applied on older models
- + This matrix shows compatibility based on display type and technology

SYSTEM SPECIFICATIONS

Real-time data from your fleet of reverse vending systems is sent to the TOMRA Plus server through a secure connection. The aggregated data is processed into useful statistics and reports. The user access the TOMRA Plus web-application by utilizing a secure connection to the Internet. Local language is supported

BAND WITH USAGE

Daily bandwidth usage per reverse vending system: Average 0.05 Kbit/s (typical configuration assuming a daily volume of 2,500 beverage containers / day). Use of promotion, donation and couponing will increase the use of bandwidth.

SECURITY

The data from the reverse vending systems to the server are encrypted using AES-256. The TOMRA Plus web portal is only accessible via https (SSL encryption to keep your proprietary information safe and inaccessible to others).

If the network connection goes down or electricity is cut, all data continues to exist in the reverse vending solutions and will be transmitted once the network connection is re-established.

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