

Vapor recovery system e-Recovery

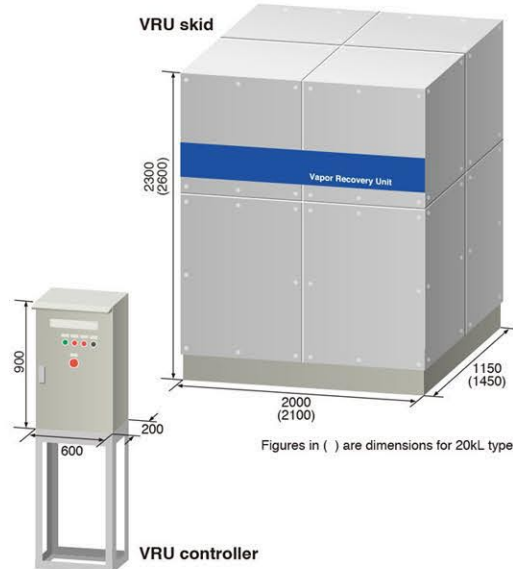
Automatically collects gasoline vapor from underground tank



Specifications

VRU skid	
Type	Adsorption type
Target Vapor	Gasoline
Collection Efficiency (Vapor)	98%
Collection Efficiency (Inventory)	0.2% and more
Air Supply	Compressor in petrol station Note: Reducing valve is necessary if air pressure exceeds 1.0MPa
Air Consumption	6 valves, Operating pressure 0.39MPa Cylinder capacity 0.2L×6 = 1.2L
Installation Location	Outside, near vent pipes
Vapor Take-out Position	Diverged from vent pipes
Max. Unloading Amount	10kL, 20kL
Max. Unloading Speed	600L/min. ~ 1000L/min.
Min. Unloading Interval	10kL type: 7 hours, 20kL type: 11 hours
Dimensions	VRU skid 10kL type: 2000(W)×2300(H)×1150(D) 20kL type: 2100(W)×2600(H)×1450(D)
Weight	10kL type: Approx. 1800kg 20kL type: Approx. 2000kg
Ambient Temperature	-20°C ~ 40°C
VRU controller	
Power Supply	100V 1 φ, 50/60Hz: 500W 200V 3 φ, 50/60Hz: 400W Grounding: D type Resistance value: 100Ω and below
Installation Location	On the wall outside, or stand-alone
Dimensions	VRU controller body 600(W)×900(H)×200(D)

Dimensions



Precautions For your safety, read the precautions section in the instruction manual attached to the product.

Contact information

Tokico System Solutions, Ltd.

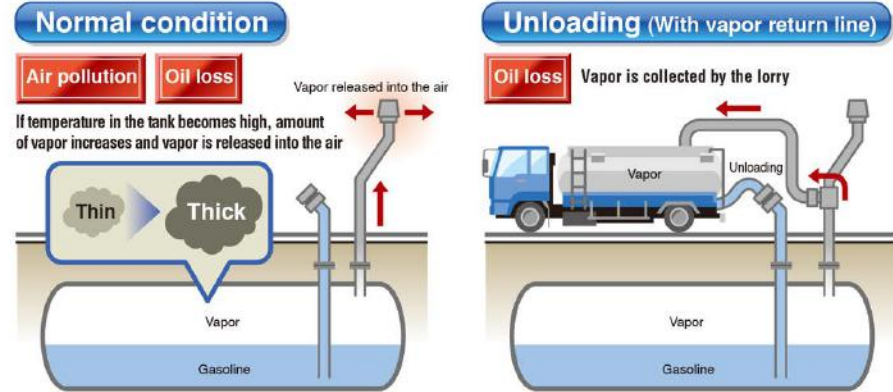
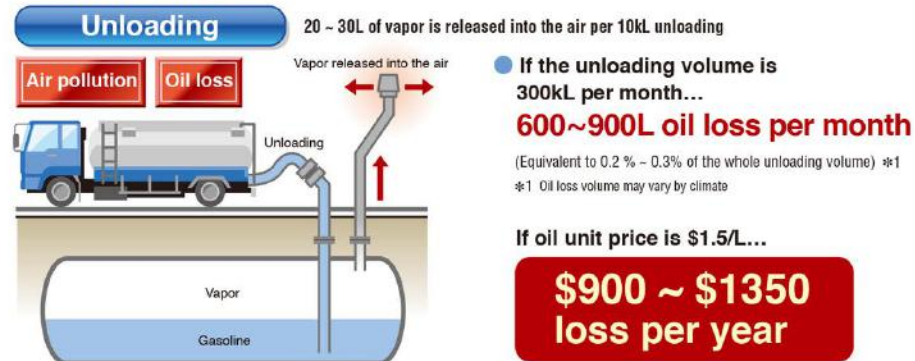
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This product is manufactured in ISO (ISO9001: 2000 Quality Management System,
ISO 14001 Environmental Management System) registered factory.

*Specifications are subject to change without prior notice.
*Color of the products in this catalog may differ from actual products.



Vapor in the underground tank may cause **air pollution** or **oil loss** as vapor is released into the air through the vent pipe.



To reduce air pollution and oil loss...

We recommend installing **e-Recovery**

"e-Recovery" is a system for returning vapor to underground tanks

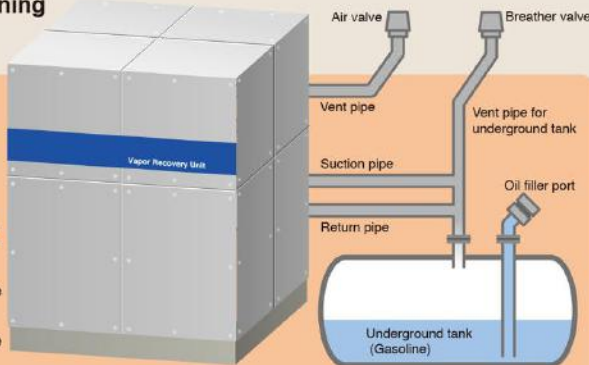
Configuration

Control board

Non-explosion-proof area

Main unit

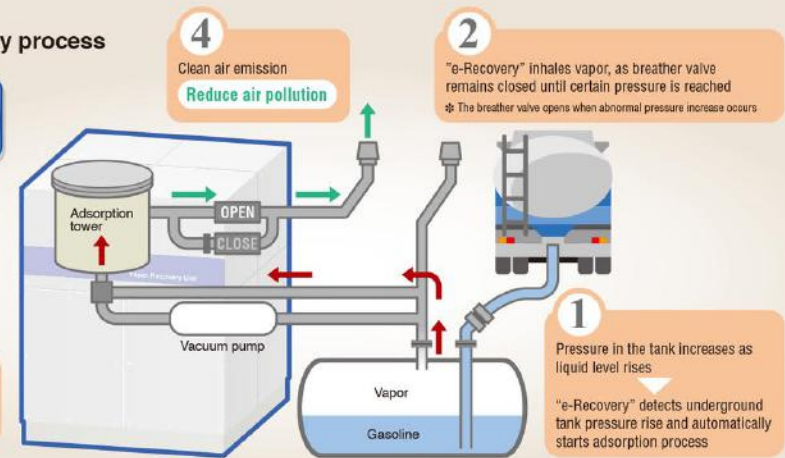
- 20kL-unloading type
- 10kL-unloading type



Vapor recovery process

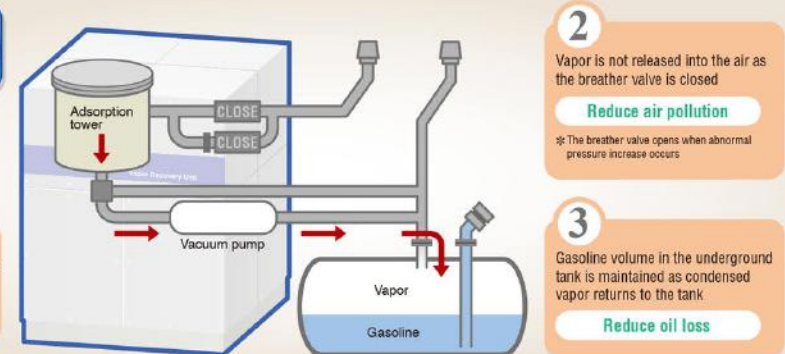
Adsorption process

- 3 Vapor is adsorbed by silica gel in the adsorption tower



Desorption process (Vacuum desorption)

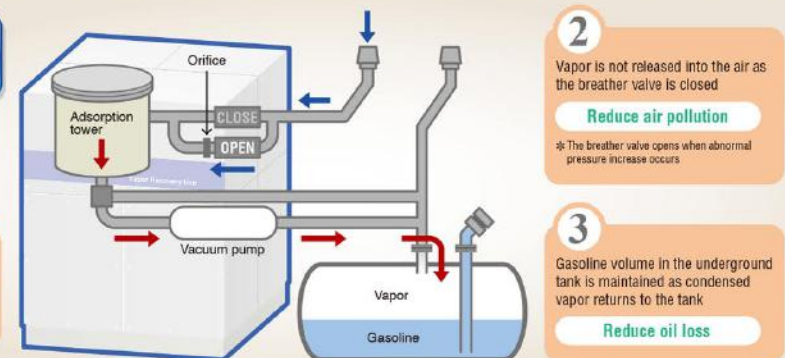
- 1 The vacuum pump operates and vapor in the adsorption tower is collected by silica gel inside the tower.



Desorption process (Purge desorption)

Vapor that was not collected by vacuum desorption is collected by inhaling small volume of air

- 1 Vacuum pump operates and vapor in the adsorption tower is collected by silica gel inside the tower.



Advantages

- 1 Collects more than **98%** of vapor occurring from unloading ※2
 - Air pollution and toxic VOC emission is prevented.
 - 0.2 ~ 0.3% of unloaded volume is collected by e-Recovery
- 2 Vapor recovery process is done **automatically** ※3

※2 Percentage may differ by unloading volume and interval time

※3 When unloading needs to be done while adsorption is still in process, reset button needs to be pressed