

VBT SERIES

Bitumen Storage Tanks

15 – 110 m³ · Vertical, horizontal and container · Electric, thermal oil or burner heating

15 – 110 m³
gross volume

3 tank forms
vertical · horizontal · container

70 kg/m³
rock wool insulation

1997
experience since

Heated and insulated storage tanks for bitumen, PMB and bitumen emulsion — configured to your site, your product and your energy infrastructure.

VBT tanks keep the product at a pumpable temperature; they are designed together with heating, high-density insulation, and temperature and level measurement. Tank form (vertical, horizontal or container), heating type, insulation thickness and agitator are chosen to suit your needs. The tanks are manufactured at our Ankara factory and shipped by road or as a container with insulation and cladding completed; tanks above 110 m³ are built on site.

- 15 – 110 m³ gross volume; vertical, horizontal and container
- Electric (PID + PT100), thermal oil coil or burner heating
- Rock wool insulation, 70 kg/m³, 50 – 300 mm
- 2 × PT100, VEGABAR level transmitter, VEGASWING maximum level
- Optional agitator, two compartments, control panel
- ISO 3834-2 welding; CE marked, 2006/42/EC

AMONG OUR REFERENCES

COLAS

CUSTOM OPTIONS

Choose the tank form to suit your needs

VBT tanks are not a fixed catalogue product; they are configured to the operator's site, product and energy infrastructure. Tank form is the first step; heating type, insulation thickness, agitator, two compartments and control panel are chosen accordingly.



VBT-V vertical tank — at our Ankara factory

VBT-V

Vertical tank

15 – 110 m³ gross volume

Heating	**Electric (PT100) · thermal oil**
Insulation	**50 – 300 mm**
Agitator	**Optional · 7.5 – 11 kW**
Highlight	**Small footprint**

VBT-H

Horizontal tank

50 – 80 m³ gross volume

Heating	**Electric (PT100) · thermal oil · burner**
Insulation	**100 – 300 mm**
Agitator	**Optional · 3 × 7.5 kW**
Highlight	**Low height, shipped by road**

VBTC

Container tank

25 · 50 m³ gross volume

Heating	**Electric (PT100) · thermal oil · burner**
Insulation	**100 mm · opt. 200 mm**
Mixing	**Circulation by pump**
Frame	**ISO 20 ft · 40 ft**

HOW IT WORKS

1. **Filling:** bitumen is filled through the DN80 inlet flange; the overflow line and the VEGASWING maximum level sensor prevent overfilling.
2. **Heating:** the product is kept at storage temperature by the selected heating system.
3. **Agitation:** in tanks with an agitator the product is kept homogeneous and separation is prevented; in the container tank by circulation.
4. **Measurement:** temperature is monitored by 2 × PT100 and a mechanical thermometer, level by VEGABAR.
5. **Discharge:** the product is sent by pump through the DN80 outlet flange to the plant, to tanker loading or to another tank.

HEATING OPTIONS

Electric (E) — bottom heating elements and main heater; 12 – 36 kW on vertical tanks. Digital PID control with PT100 sensors, manual-reset safety thermostat. No heater needed on site.

Thermal oil (T) — P235GH DN50 steel coil inside the tank. The heat source can be a Vimpo VTH thermal oil heater; several tanks are heated from a single heater.

Burner — on horizontal and container tanks; for job sites and temporary works without energy infrastructure. Not used for bitumen emulsion.

Other options: insulation thickness, two compartments (2C), control panel (IP54), stainless steel gas displacement system.

MODELS

VBT model range

The standard models are listed below; volume, heating, insulation and agitator can be adapted per project. A separate technical data sheet is prepared for each model.







Vertical tanks · VBT-V

	VBT-E-V-15	VBT-E-V-30	VBT-E-V-60	VBT-T-V-60-AG	VBT-T-V-80-AG	VBT-T-V-110-AG
Gross volume	**15 m³**	**30 m³**	**60 m³**	**60 m³**	**80 m³**	**110 m³**
Heating	Electric · PT100	Electric · PT100	Electric · PT100	Thermal oil	Thermal oil	Thermal oil
Power	12 kW heating	24 kW heating	36 kW heating	11 kW agitator	11 kW agitator	11 kW agitator
Insulation	200 mm	200 mm	200 mm	100 · 200 · 300 mm	200 mm	200 mm
Shell plate	6 mm S235	6 mm S235	8 mm S235	8 mm S235	8 mm S235	8 mm S235

Horizontal and container tanks · VBT-H · VBTC

	VBT-T-H-50	VBT-E-H-60	VBT-T-H-80	VBTC20	VBTC40
Gross volume	**50 m³**	**60 m³**	**80 m³**	**25 m³**	**50 m³**
Heating	Thermal oil	Electric · PT100 · 3 × 12 kW	Thermal oil	Electric · thermal oil · burner	Thermal oil
Mixing	Opt. 3 × 7.5 kW	Opt. 3 × 7.5 kW	Opt. 3 × 7.5 kW	Circulation	Circulation
Insulation	100 mm	100 · 200 · 300 mm	100 · 200 · 300 mm	100 mm	100 mm · opt. 200 mm
Shipping	Road	Road	Road	ISO 20 ft container	ISO 40 ft container

Code: VBT-[T/E]-[V/H]-volume-insulation · T: thermal oil · E: electric, PT100 temperature control · V: vertical · H: horizontal · AG: with agitator · 2C: two compartments. Horizontal and container tanks are also built with burner heating. Tanks above 110 m³ are built on site.

THE RIGHT TANK FOR YOU

- **Tank form:** vertical if space is limited; horizontal for low height and easy shipping; container for temporary works and export.
- **Heating:** T if a thermal oil system is on site; otherwise, or for a single tank, E; burner for temporary works without energy infrastructure.
- **Product:** a tank with agitator (AG) for PMB and products prone to separation; a separate tank operating below 85 °C for emulsion.
- **Insulation:** 200 – 300 mm for electric tanks, continuous hot storage and cold climates.

KEY FEATURES

Why Vimpo VBT?

Custom configuration
Tank form, volume, heating type, insulation thickness, agitator and controls are chosen to suit your needs.

High-density insulation
70 kg/m³ rock wool, 50 – 300 mm; galvanised and painted sheet cladding.

Heating options
Electric (PID + PT100), thermal oil coil or burner.

Level and temperature measurement
VEGABAR continuous level, VEGASWING maximum level, 2 × PT100 and mechanical thermometer.

Safety
Manual-reset safety thermostat, overflow line, manhole with lockable cover.

Certified manufacturing
S235 steel shell, ISO 3834-2 welding; CE marked, 2006/42/EC and 2014/30/EU.

Easy shipping and installation
Insulated and clad in the factory; road and container shipping, fast commissioning on site.

Single-supplier system
An integrated solution with Vimpo bitumen pumps, VTH thermal oil heaters and loading units.

STANDARD SCOPE

- S235 steel tank shell, welded to ISO 3834-2
- Selected heating system and safety thermostat
- Rock wool insulation, galvanised and painted sheet cladding
- 2 × PT100, mechanical thermometer, VEGABAR, VEGASWING
- DN80 inlet and outlet, overflow line, lockable manhole, sampling point
- Galvanised platform and ladder on tanks with agitator
- Technical data sheet, CE declaration of conformity, operating manual

The control panel, bitumen pump, thermal oil heater, foundation and external piping and cabling are outside the scope unless expressly quoted.

WHERE IT IS USED

- Asphalt plants
- Emulsion plants
- PMB plants
- Refineries and terminals
- Distribution depots
- Road job sites
- Membrane and waterproofing factories
- Temporary and export projects



VBT-V vertical tank — shipped from our Ankara factory

Let's configure your tank together

Tell us the product to be stored, the volume you need, your heating preference and site conditions — we will recommend the right VBT tank and send the data sheet and quotation. Commissioning and spare parts from Ankara, Herford (Germany) and Pune (India).

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