

VBM SERIES

Bitumen Melting Systems

Big bag, drum and clovertainer melters, 3 to 10 t/h

3 – 10 t/h	3 types	8 models	130–160 °C
melting capacity	big bag · drum · box	one melting principle	bitumen outlet

One melting principle for every pack: the pack rests on a heated grid, the bitumen drains into the reservoir.

All three types use the same principle and the same components. The pack rests on a heated thermal oil grid; the bitumen melts and drains into the reservoir, and the empty pack stays on the grid. A filter before the pump holds back residue, and a Vimpo VH80S jacketed pump sends the bitumen out at 130–160 °C. Eight models cover 3 to 10 t/h.

- Big bag (1 t), drum (200 L) or box (1 m³)
- Heated thermal oil grids and coils
- Filter before the pump
- Vimpo VH80S jacketed pump, 28.8 m³/h
- BB-K models with own 582 kW heater
- Simple on/off control, 2-stage temperature

VIMPO BITUMEN STORAGE AND PROCESSING

VBT bitumen tanks · VTH thermal oil heaters · VEP emulsion plants · VPM PMB plants

HOW IT WORKS

From solid bitumen to liquid bitumen



VBM-BB big bag unit, example photo

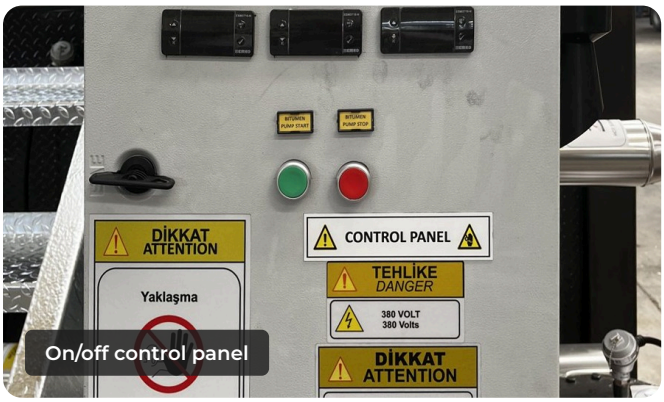
The big bag, the opened drums or the box rest on a thermal oil grid. The bitumen melts and drains into the reservoir under the grid. The bag, liner, drum or box residue stays on the grid; take out the empty pack and load the next one.

FOUR STEPS

1. **1 · Load** — Big bag from the top · drums · on 2 lanes · boxes from the side
2. **2 · Heated Grid** — Thermal oil grid melts · the bitumen out of the pack
3. **3 · Reservoir** — 5 – 15 m³, thermal oil coils · keep the bitumen hot
4. **4 · Filter and Pump** — VH80S pump, 28.8 m³/h · outlet 130–160 °C

HEATING

Thermal oil at 200–220 °C flows through P235GH coils in the reservoir and through the grids. The units connect to an external thermal oil heater with 3" flanges and valves. Big bag models BB-3K and BB-5K carry their own 500,000 kcal/h (582 kW) heater.



On/off control panel

SIMPLE TO RUN

All models have the same on/off panel with two-stage temperature control: low stage and high stage, both set manually.

- Thermal oil 200–220 °C
- Mechanical float level indicator
- IP 54 indoor · IP 55 outdoor

BIG BAG

VBM-BB big bag bitumen melters

For bitumen in 1 t big bags. Lift the bag onto a top loading hatch; the heated grid under the hatch melts the bitumen out of the bag. BB-3K and BB-5K have their own thermal oil heater on the chassis.



VBM-BB unit, example photo


Stairs to the top loading hatches

BAG OPENING

The bag rests on the heated grid under the hatch. The bitumen drains into the reservoir; the PP bag and the PE liner residue stay on the grid.

- 1 t big bags, PP outer bag with PE liner
- Option: monorail hoist over the hatches
- K models: 582 kW heater, diesel or natural gas

Model	BB-3	BB-3K	BB-5	BB-5K	BB-10
Hatches	1	1	2	2	4
Capacity	3 t/h	3 t/h	5 t/h	5 t/h	10 t/h
Reservoir	5 m^3	5 m^3	10 m^3	10 m^3	15 m^3
Heating	external	own heater	external	own heater	external
Thermal power	500,000 kcal/h	582 kW	500,000 kcal/h	582 kW	1,000,000 kcal/h

WHERE IT IS USED

- Asphalt plants and bitumen terminals
- Emulsion and PMB plants
- Remote job sites without tanker supply
- Paving, oxidised and polymer modified bitumen

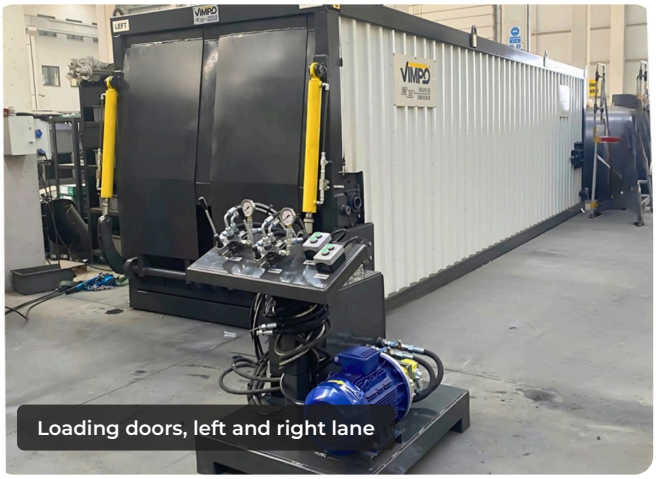
DRUM

VBM-B drum bitumen melter

For bitumen in 200 L steel drums. The hydraulic loader pushes the opened drums into the heated chamber on 2 lanes; the bitumen drains through the heated grid into the 10 m³ reservoir.



VBM-B drum melter, hydraulic drum loading, example photo



Loading doors, left and right lane

DRUM LOADING

Put the opened drums on the 2 loading lanes. The hydraulic loader moves them into the heated chamber. The operator controls the loader from the hydraulic stand at the front.

- 36 drums per charge
- Hydraulic drum loading, 2 lanes
- 40 ft container size

Model	VBM-B-8
Pack	200 L drum
Loading	36 drums, 2 lanes
Capacity	8 t/h
Reservoir	10 m³
Thermal power	1,000,000 kcal/h
Size	40 ft container size

COMMON TO ALL MODELS

- Thermal oil 200–220 °C, outlet 130–160 °C
- Vimpo VH80S pump, 28.8 m³/h, 11 kW
- Filter before the pump, cleaning hatch
- On/off panel, 2-stage manual temperature

CLOVERTAINER (BOX)

VBM-CT clovertainer melters



VBM-CT clovertainer melter on site, example photo

For bitumen in 1 m³ clovertainer boxes. Same unit as the big bag melter, but the boxes go in from the side: each compartment has a heated grid, the box rests on it and the empty box comes out from the side.

- VBM-CT-5: 2 side compartments, 5 t/h, 10 m³
- VBM-CT-10: 4 side compartments, 10 t/h, 15 m³
- 1 m³ boxes
- Option: forklift or crane for the boxes

TECHNICAL SPECIFICATIONS

All eight models

Melting capacity depends on the bitumen grade, the pack temperature and the available thermal power.

Model	Pack · loading · capacity · reservoir · heating
VBM-BB-3	Big bag · 1 top hatch · 3 t/h · 5 m³ · external thermal oil 500,000 kcal/h
VBM-BB-3K	As BB-3 · own heater 500,000 kcal/h (582 kW), diesel or natural gas
VBM-BB-5	Big bag · 2 top hatches · 5 t/h · 10 m³ · external thermal oil 500,000 kcal/h
VBM-BB-5K	As BB-5 · own heater 500,000 kcal/h (582 kW), diesel or natural gas
VBM-BB-10	Big bag · 4 top hatches · 10 t/h · 15 m³ · external thermal oil 1,000,000 kcal/h
VBM-B-8	Drum · 36 drums, 2 lanes hydraulic loading · 8 t/h · 10 m³ · external thermal oil 1,000,000 kcal/h
VBM-CT-5	Clovertainer · 2 side compartments · 5 t/h · 10 m³ · external thermal oil 500,000 kcal/h
VBM-CT-10	Clovertainer · 4 side compartments · 10 t/h · 15 m³ · external thermal oil 1,000,000 kcal/h
All models	Thermal oil 200–220 °C · bitumen outlet 130–160 °C (max. 200 °C paving grade) · Vimpo VH80S pump, DN80, 28.8 m³/h, 11 kW · 3" outlet
Body	Profile chassis · S235JR plate · 50 mm rock wool · galvanized trapezoidal cladding · P235GH coils and grids
Control	On/off panel · two-stage manual temperature control · IP 54 indoor / IP 55 outdoor
Products	Paving grade bitumen, oxidised bitumen, polymer modified bitumen

OPTIONS

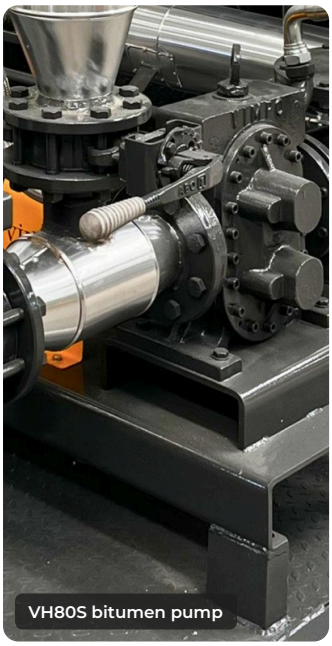
Loading crane	monorail hoist over the big bag hatches, on request
Box handling	forklift or crane for clovertainer boxes, on request
Storage	heated bitumen storage tank, Vimpo VBT series

KEY FEATURES

Common features

- **Heated Grids** — Thermal oil grids and coils · P235GH steel
- **Filter Before Pump** — Pack residue · held back
- **Vimpo VH80S Pump** — Jacketed, DN80 · 28.8 m³/h, 11 kW
- **Thermal Oil 200–220 °C** — Bitumen outlet 130–160 °C · max. 200 °C paving grade
- **50 mm Rock Wool** — S235JR body, galvanized · trapezoidal cladding
- **Simple Control** — On/off panel, 2-stage · manual temperature
- **Own Heater (BB-K)** — 500,000 kcal/h (582 kW) · diesel or natural gas
- **Easy Service** — Maintenance and cleaning hatch · mechanical float level

DETAILS


VH80S bitumen pump



On/off control panel


Access stairs


Unit on its chassis

WHERE IT IS USED

- Asphalt plants
- Bitumen terminals
- Emulsion plants
- PMB plants
- Remote job sites
- Bitumen in packs

Get a Bitumen Melting Unit Quote

Tell us how your bitumen arrives (big bag, drum or box), the capacity and your heating source; our team will select the model and prepare the quotation.

+90 312 354 85 09
sales@vimpo.com
www.vimpo.com

Photos are for illustration. Specifications may change without notice.