

27Mt 30/70 Shipper Bitutainer™ Range Model TR-T-278 & TR-T-156

(For Direct Fire, Thermal Oil, Steam or Electric Heating)

Suitable for Storage and Transportation of Bitumen, Bitumen Emulsions, PMBs and Heavy Fuel Oils

A unique concept in Bitumen Distribution with 30% more carrying capacity than Conventional Tank Containers

- Nominal Capacity 29,000 Litres
- ISO 1496 Part 3 - Type 70 Classification
- High performance factory fitted direct fire or electric heating tubes or double layer thermal oil / steam heating coil
- Ideal for Sea, Road and Rail Transport
- Baffled design allows Partial Payloads to be carried
- Robust and Durable Double Skin Design makes this Bitutainer™ ideal for operation in harsh working environments
- High Value Factory Installed Insulation and Pressed Corten Steel Outer Skin
- Fully Framed with Corner Twist Locks and Damage Reinforcement Plates
- Transported as a Standard 20ft ISO Tank Container with Lloyds Approval
- Range of bitumen handling equipment available including pumps and hoses



Heating Equipment Options:

- Diesel Burner set and Flameliners
- Connection to an existing Thermal Oil Heating Circuit on site
- Electric elements

Ratings:

Max GW 35,125 Kgs
Payload 28,825 Kgs
Tare Wt. <6,300 Kgs

Measures:

Length 6,058 mm (20')
Width 2,438 mm (8')
Height 2,591 mm (8'6")

24Mt IMO1 Rated Bitutainer™ Range Model TR-T-778 & TR-T-679

(For Direct Fire, Thermal Oil, Steam or Electric Heating)

Suitable for Storage and Fully Intermodal for Transportation of Hot Liquid Bitumen, Emulsions, Light and Heavy Fuel Oils

Fully IMDG Compliant with ADR/RID, US DOT/TC

- Nominal Capacity 24,000 Litres
- ISO 1496 Part 3 - Type 75 "Tank Containers"
- Inner Vessel Pressure Tested to 4.0 bar
- High performance factory fitted direct fire or electric heating tubes or double layer thermal oil / steam heating coil
- Baffled design allows Partial Payloads to be carried
- High Value Factory Installed Insulation and Pressed Corten Steel Outer Skin
- Fully Framed with Corner Twist Locks and Damage Reinforcement Plates
- UN Coded T3 (IMO1 rated) Tank Container with Lloyds Approval
- Range of bitumen handling equipment available including pumps and hoses



Heating Equipment Options:

- Diesel Burner set and Flameliners
- Connection to an existing Thermal Oil Heating Circuit on site
- Electric elements

Ratings:

Max GW 30,480 Kgs
Payload 23,630 Kgs
Tare Wt. <6,850 Kgs

Measures:

Length 6,058 mm (20')
Width 2,438 mm (8')
Height 2,591 mm (8'6")

20Mt IMO1 Rated Bitutainer™ Model TR-T-878

(For Direct Fire, Thermal Oil, Steam or Electric Heating)

Suitable for on site Storage and Fully Intermodal for Transportation of Hot Liquid Bitumen, Emulsions, Light and Heavy Fuel Oils

Fully IMDG Compliant with ADR/RID, US DOT/TC

- Nominal Capacity 21,000 Litres
- ISO 1496 Part 3 - Type 75 "Tank Containers"
- Inner Vessel Pressure Tested to 4.0 bar
- High Performance factory fitted direct fire or electric heating tubes or double layer thermal oil / steam heating coil
- Baffled design allows Partial Payloads to be carried
- High Value Factory Installed Insulation and Pressed Corten Steel Outer Skin
- Fully Framed with Corner Twist Locks and Damage Reinforcement Plates
- Transported as a Standard 20ft ISO Tank Container with Lloyds Approval
- Range of bitumen handling equipment available including pumps and hoses
- Low Max Gross Weight allows for transport in areas with poor infrastructure or strict over the road weight regulations



Heating Equipment Options:

- Diesel Burner set and Flameliners
- Connection to an existing Thermal Oil Heating Circuit on site
- Electric elements

Ratings:

Max GW 26,000 Kgs
Payload 20,250 Kgs
Tare Wt. <5,750 Kgs

Measures:

Length 6,058 mm (20')
Width 2,438 mm (8')
Height 2,591 mm (8'6")

2.8Mt Mini Bitutainer™

(For Direct Fire Heating)

Suitable for Transportation and Storage of Bitumen, Bitumen Emulsions, PMBs and Heavy Fuel Oils

A unique concept in Bitumen Distribution offering a light, yet robust and durable supply solution for remote areas

- Nominal Capacity 2,800 Litres
- High Performance factory fitted heating tube
- Ideal for transport in areas with poor road infrastructure not permitting heavy loads
- Suitable to be lifted by a low capacity forklift
- Double Skinned Robust Design makes this Mini Bitutainer™ ideal for operation in harsh working environments
- High Value Factory Installed Insulation and Pressed Corten Steel Outer Skin
- Fully Framed with Corner Twist Locks and Damage Reinforcement Plates
- Can be shipped within a Standard ISO shipping Container with 4 fitting within a 20ft container and 8 fitting within a 40ft container
- Can also be transported by road on a standard flatbed trailer
- Range of bitumen handling equipment available including pumps and hoses



Heating equipment required:

- Quick Fit Single Diesel Burner
- Stainless Steel Flameliner

Ratings:

Max GW 4,162 Kgs
Payload 2,800 Kgs
TareWt. 1,362 Kgs

Measures:

Length 2,250 mm (7'4")
Width 1,940 mm (6'4")
Height 1,100 mm (3'7")

40ft Storage Bitutainer™ Range Model TR-T-108 & TR-T-103

(For Direct Fire, Thermal Oil, Steam or Electric Heating)

Suitable for Storage of Hot Liquid Bitumen,
Bitumen Emulsions, PMBs and Heavy Fuel Oils

Provides an Innovative and Versatile Concept in Temporary Bitumen Storage

- Nominal Capacity 65,000 Litres
- ISO 1496 Part 3 - Type 70 Classification
- High performance factory fitted direct fire or electric heating tubes or double layer thermal oil / steam heating coil
- Re-circulation connection options available
- High Value Factory Installed Insulation and Pressed Corten Steel Outer Skin
- Fully Framed with Corner Twist Locks and Damage Reinforcement Plates
- Transported as a Standard 40 ft ISO Tank Container with Lloyds Approval
- Range of bitumen handling equipment available including pumps and hoses
- Large Capacity Provides Highly Economical Storage and Lower Heating Costs when Compared to Bulk Storage Tanks
- **Ideal for use as Individual Static Storage Tanks or as a part of an Interconnected Storage Facility System**



Heating Equipment Options:

- Diesel Burner set and Flameliners
- Connection to an existing Thermal Oil Heating Circuit on site
- Electric elements

Ratings:

Max GW 75,000 Kgs
Payload 65,000 Kgs
Tare Wt. <10,000 Kgs

Measures:

Length 12,192 mm (40')
Width 2,438 mm (8')
Height 2,896 mm (9'6")

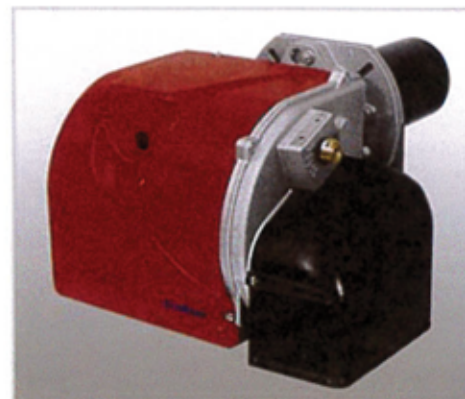
Bitutainer™ Direct Fire Diesel, LPG or LNG Burner Unit (with Optional Control Panel)

For use with TEC Transportation and Storage Bitutainers™

**High Output Burner Systems, Pre-Tested, Easily Installed
and Ready to Use.**

Features include:

- Units supplied pre calibrated for optimal efficiency in the heat up process
- Suitable for both bitumen and emulsions.
- The basic system includes twin burners that can be operated as single or dual units.
- Handles and a special 'slotted' adaptor plates make it quick and easy to fix and remove burner heads
- Freestanding weather protected panel. Short trailing power supply lead
- The optional Control Panel is designed to provide accurate control of the Bitutainer™ heating process using plug-in wiring connections
- Control Panel is fitted with an internal time switch for automatic heating as well as a digital controller for programming pre-set temperatures
- PT100 Temperature probe to supply temperature sensing within the Bitutainer™
- Units can be adapted to meet local power supply requirements.



SPECIFICATION

Type	Burner No.	Total Output Range	Total Fuel Consumption
30/70 IMO	2 x Diesel Max 15	150/380 kW 330,000 Kcal/hr	Average 20 – 22 Litres/hour
30/70 IMO	2 x LPG/LNG Max Gas 170	110/350 kW 305,000 Kcal/hr	Average 17 – 19 Litres/hour
220V Single Phase 50Hz AC supply 1—1.25kW			

Re-locatable Skid Mounted Transfer Pumping System

A Complete System for Rapid Discharge or Loading of Bitumen and Heavy Fuel Oils

Ideal for Loading Road Tankers or Bitutainers™ on Site
Available in 28-100Mt/hr capacities

Features include:

- Robust durable design for long life and reliability
- Capable of discharging a Bitutainer™ in approximately one hour (28Mt/hr Model)
- Electric cartridge heated Horizontal External Gear, Positive Displacement Pump
- Interconnecting pipework is electrically trace heated and insulated for use in a wide variety of climates
- Operator safety feature - integral pressure relief valve set at 5.0 bar
- Pump Skids fitted with 3" or 4" mono in-line strainer with spare basket
- Manual ball valves fitted to isolate the pump set and strainer
- Main control Panel for Pump Start Up and emergency shut-off
- Overhead roof shelter
- Pump supplied coupled to an IP55 Electric Motor
- Suitable for 415volts/350Hz
- Optional flexible steel high temperature braided hoses.



TEC Relocatable Ship to Shore Unloading System

TEC's unique system offers flexibility, security and efficiency during a bitumen vessel unloading operation

Suitable for quayside distribution of bitumen and heavy fuel oils into road tankers or Bitutainers™

Features include:

- Relocatable self-contained system - housed within a 40ft shipping container
- Two and Four Loading Arm variants available
- Flexible and independently powered mobile system with 500ltr fuel tank
- Interconnecting pipework is electrically trace heated and insulated for use in a wide variety of climates
- Operator Safety features - overfill shutdown, operator pressure switch, and optional batch control meters
- Security railing, roof access ladder and folding stairs for safe operator access
- Product re-circulation system to avoid over-pressurisation
- Differential control valve to regulate pressure during transfer
- Compressed air system for product blow back to ship.
- Fitted with 8" mono inline strainer
- Various overfill and flow meters with totalisers available.
- Ship discharge and return hose options - size depends on customer requirements

