

“Midi-Break®” - Break Tank & Booster Set – Model BTMIDI – Overview – Datasheet Page 1 of 2

Description

Wall mounted break tank and pump assembly with Fluid Category 5 protection by virtue of the integral Type AB air gap complying with BS EN13077: 2003. The set is intended for light industrial use and is housed in a stainless steel cabinet ready for wall mounting in a frost free environment.

The primary purpose is to provide backflow protection in accordance with the Water Regulations. The Midi-Break® also provides cold water at a known outlet pressure. *Where hot water is required – see Ablution Plant – BTHW.*

Three models are available with differing flow characteristics see graph. The Midi-3A is built to a higher specification for commercial use with many additional features – see Codes & Descriptions. *For higher flow rates (multiple taps) where a good jet from a hose gun is required or where high daily demand is anticipated use “Boost-A-Break®” (model BTAB900, BTAB1200 or BTAB3-10).*

The unit is quiet since the pump is mounted on anti vibration mounts with flexible stainless braided internal hoses. Automatic pump control is by means of a pressure vessel, industrial pressure switch and a flow sensor. This system provides reliable pump operation with the minimal amount of starts. The pump has a “soft start” feature, which avoids water and electrical surges. The pump is protected via low level float switch in the cistern (models BTMIDI-2A and 3-A only).

Specification

Pressure Supply	10 bar max.
Pressure Supply	1.0 bar dynamic min.
Min. Flow rate	0.04 Lt/s continuous or 0.01 Lt/s for max 5 mins. <i>(below 0.01 Lt/s use 4 Lt min. external pressure vessel – EVUP)</i>
Pressure Outlet	See pressure / flow graph
Temperature	1° - 25° C max.
Water Regulations Approval	1705332

Materials

Cabinet	Stainless steel 304
Cistern	Polypropylene
Pump (wetted parts)	Brass (regenerative)
Pipes / fittings	Copper / Brass / Stainless

Electrical Specification

Volts/Phase/Frequency	230/1/50
Motor type	Induction (brushless)
IP Rating	EN60529 IP15 (cabinet) IP65 (controls)
Power Consumption	550 W (Midi-3A / 2A) 350 W (Midi-1)
Full Load Current	2.3 A (Midi-3A / 2A) 1.6 A (Midi-1)
Rating	Continuous. <i>Where average daily use likely to be >2 hours, we recommend “Boost-A-Break®”.</i>

Applications

The following are Fluid Category 5 examples see Water Regulations (Table 6.1e) -

- Waste bin washing – use Midi-3A single tap only
- Hose union tap – non-domestic – use Midi-3A single tap
- Wash-down – animals or any FC 5 – see “Boost-A-Break®”
- Sinks with hoses
- Bidets – ascending spray – see Ablution Plant - BTHW
- Vegetable washing
- Butchery & meat equipment / Slaughterhouse
- Laboratories
- Clothes & Dish washing machines – healthcare premises
- Instantaneous showers and heaters - care premises
- Applications deemed to be Category 5 by water company



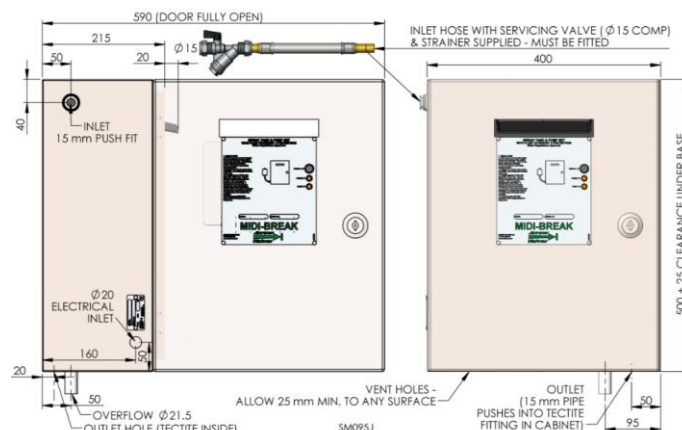
BTMIDI-3A
Stainless steel cabinet provides neat & tamperproof installation



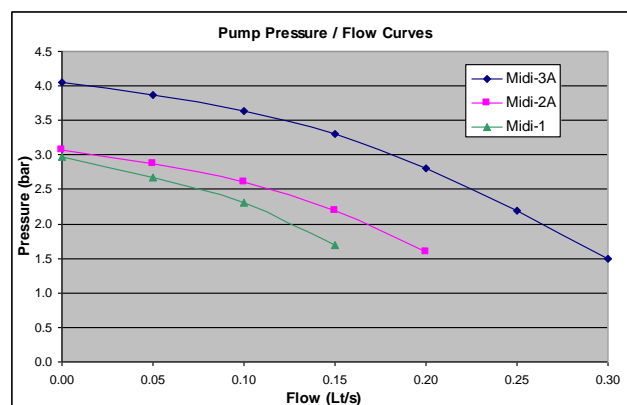
Water Regulations

The Regulations require point of use protection. It is not permissible to use the same Break Tank to serve a bedpan washer (Fluid Category 5) and dishwasher.

Dimensions



Pump Performance



Note – ½” hose gun generally requires 0.3 Lt/s

Codes and Descriptions

Code	Description
BTMIDI-1	Break Tank & Pump MIDI-1 230 V
BTMIDI-2A	Break Tank & Pump MIDI-2 Advanced 230 V
BTMIDI-3A	Break Tank & Pump MIDI-3 Advanced 230 V

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All unit-less dimensions in mm.
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“Midi-Break[®]” - Break Tank & Booster Set – Model BTMIDI – Options – Datasheet Page 2 of 2

Options (*not available for BTMIDI-1)

- Wall Mounting Bracket (MIDIBRA).
- BMS fault monitor (BTBMS3)* - volt free with changeover. Activates fault lamp and BMS relay if tank water level is too high or low, or if there is a low pressure fault.
- Frost protection system (BTFPS2)*. Recommended for unheated areas such as bins stores. For external installations, specify BTFPS2 and Wall Cover.
- GRP Wall Cover (BTCAB4) - *Not possible with drip tray.*
- Drip Tray (BTDT3) - *Not possible with wall cover.*

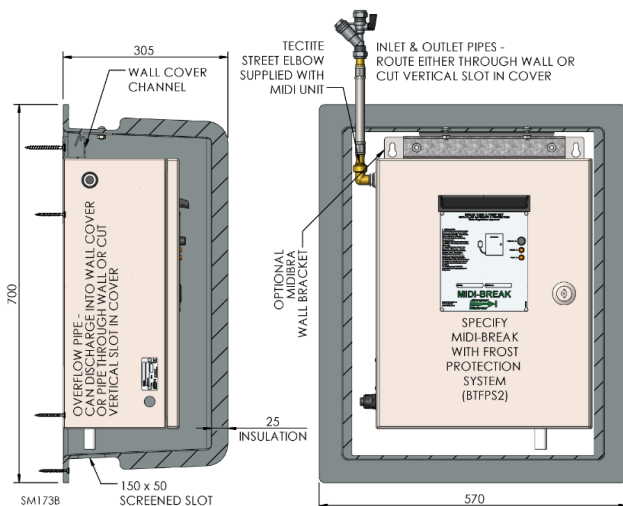
Code	Description
MIDIBRA	Wall Mounting Bracket for Midi range
BTBMS3	BTMD/BTHW Alarm BMS – Volt Free
BTFPS2	BTMIDI Frost Protection System
BTCAB4	Wall Cover for Midi-Break
BTDT3	Drip Tray for Midi range Stainless

GRP Wall Cover

BTCAB4 – Insulated GRP Wall Cover, for use with the MIDIBRA Wall Mounting Bracket. The GRP colour is BS 00-A-05 (RAL equivalent is 7038). Integrated Frost Protection System (BTFPS2 – see below) can be added to the Wall Cover. Ideal for bin stores and external installations. Not suitable for use with the BTDT3 Drip Tray.



Dimensions

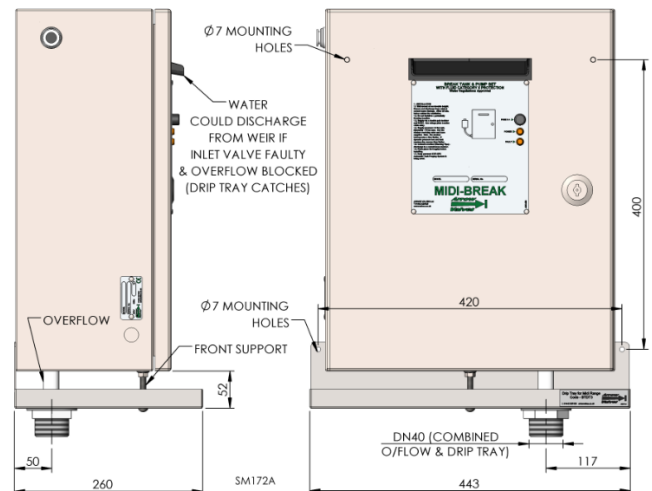


Drip Tray

BTDT3 – Stainless steel 304 Drip Tray. Catches any water discharged through weir if inlet valve is faulty and overflow blocked. Not suitable for use with the BTCAB4 Wall Cover.



Dimensions



Features and Benefits

The BTMIDI-3A is normally specified, featuring a reliable tank filling arrangement in place of a Torbeck float valve. The BTMIDI-2A could be considered for low flow rate applications.

Feature	BTMIDI-3A	BTMIDI-2A	BTMIDI-1
Power indicator neon	•	•	
Fault indicator neon	•	•	
Low tank level switch	•	•	
High output (0.3 Lt/s)	•		
Electronic & Solenoid filling	•		
BMS fault monitor – BTBMS3	Optional	Optional	
Frost protection system	Optional	Optional	

Frost Protection System

BTFPS2 - A thermostat attached to the control box will cause the pump to run against a closed head to generate heat.

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