

Information sheet

Modular WTP: buffer module

Concept

A 20ft buffer container, divided in several compartments.

Method

The buffer module is the link between all other modules and has no PLC of its own. Pumps and measurements inside the buffer module are controlled by the corresponding upward and/or downward module.

It consists of a 20ft coated steel buffer, divided into several smaller compartments. To augment the versatility of the module, most compartments can be connected to each other by flanged openings on the bottom or the top of the compartment, making it possible to create different sizes of buffers and buffers that flow over into each other (e.g. to make sure a part of the buffer is always full to have water available for flushing).



Picture 1: example of a buffer module

On the side of the buffer, an electrical connection panel is provided to connect pumps and level transmitters. This panel (or part of it) can then be connected to the downward and/or upward module(s).

Options

Several options can be added to the buffer module:

An oil/water separator can be fitted into one of the compartments.

Some types of buffer modules can be fitted with mixers for chemical addition (e.g. neutralisation).



Picture 2: mixers in buffer module

Covers can be provided for the compartments to reduce odours or vapours or to protect from frost.

A hand rail and ladder can be provided to ease the access to the top of the buffer. This is particularly handy when the buffers are used to mix chemicals, so that extra sensors (e.g. pH probe) are easier to install and maintain, the addition of the chemical can be inspected visually and samples can be taken more easily

Technical details

Design capacity: 10 m³/h (but can handle up to 30 m³/h)

Volume compartments: variable

6 electrical connections for pumps and/or mixers

6 connections for signal cables

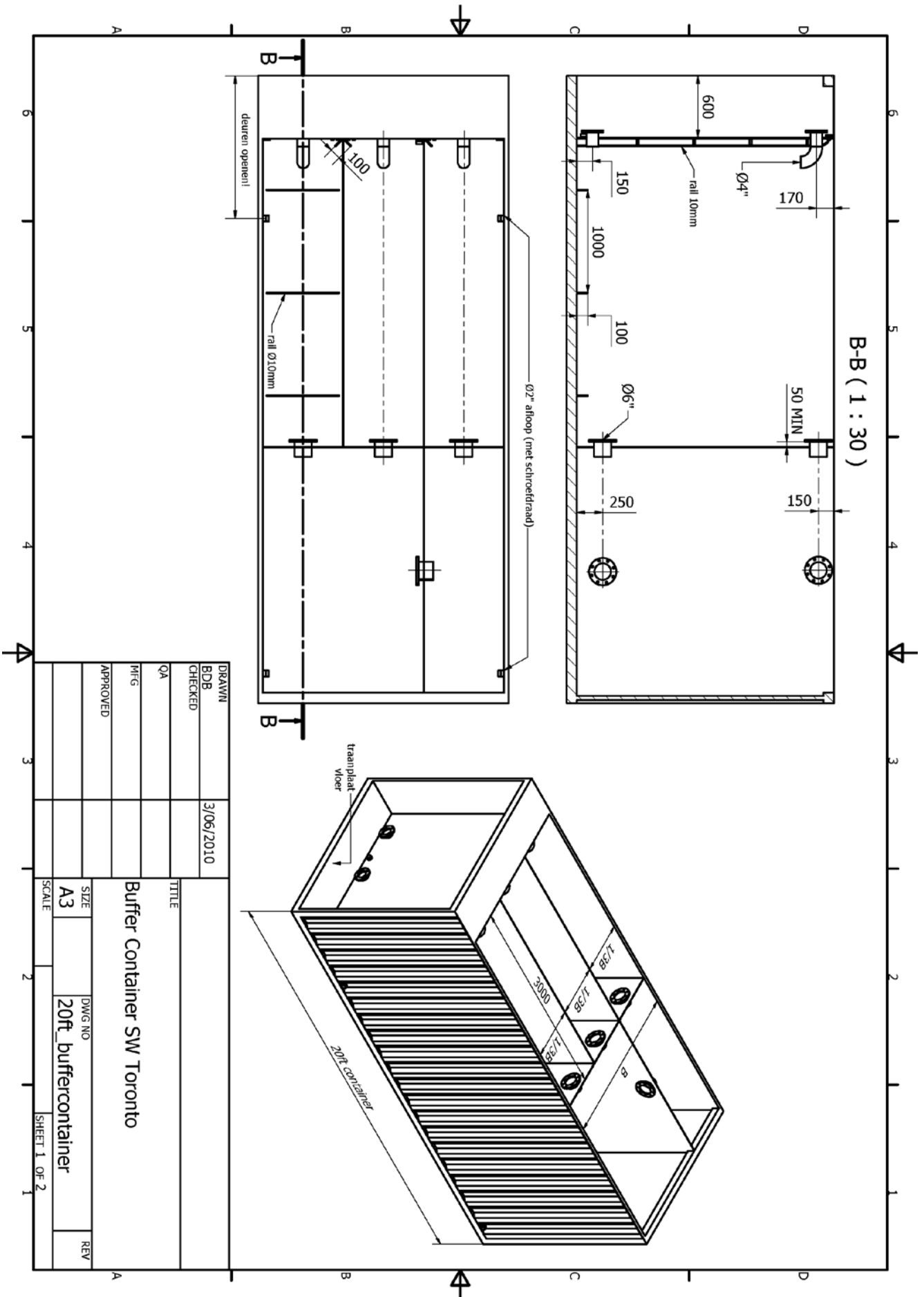
Flanges: DN100

Material: coated steel

Weight: +/- 5 tons

[Technical information sheet](#)

[Pilot scale feasibility testing](#)



DRAWN	BDB	3/06/2010	TITLE	
CHECKED			Buffer Container SW Toronto	
QA			SIZE	DWG NO
MFG			A3	20ft_buffercontainer
APPROVED			SCALE	SHEET 1 OF 2
				REV