

Building Product Information Sheet

Product name:

Buffer tank

Product line (the product line from which the product is customised):

Fiorini buffer tanks

Product description and its intended use (measurements, materials, usage):

Fiorini buffer tanks are used to store thermal energy in water. Installing a storage tank makes the heat pump more efficient and increases its longevity. Thanks to the storage of water, continuous and rapid changes in the water temperature, due to intermittent regulation, are avoided. Installing a Fiorini buffer tank is also recommended because it reduces, as far as is possible, the compressor's start-up and switch off cycles. The storage tanks, depending on the aim, can be divided into balancing tanks and in-line storage tanks. The balancing tanks create 2 separate circuits which have anti-mix or internal baffles, diffusing pipes, or conveyor pipes. The in-line storage tanks, on the other hand, do not divide the circuit and should be installed on the return side, preferably before the circulation pump.

Product identifier (if applicable):

TS45/85MHC/ TS200VKGHC/TS500HC/TS1000VKGHC

Please of manufacturer: Aotearoa New Zealand Overseas

Legal and trading name of the manufacturer(s):

Fiorini Industries Srl

Legal and trading name of the manufacturer(s):

Central Heating New Zealand Ltd

Address for service:

STREET NAME 52 Pilkington Way

SUBURB Wigram

CITY, COUNTRY Christchurch, New Zealand

POSTCODE 8042

Website:

<https://www.centralheating.co.nz/>

Email Address:

info@centralheating.co.nz

Phone No. (if applicable):

03 357 1233

NZBN (if applicable):

9429036621231



Relevant Building Code clauses:

Clause B2 DURABILITY:

Performance B2.3.1 (b)

Clause F2 HAZARDOUS BUILDING MATERIALS:

Performance F2.3.1.

Clause G10 PIPED SERVICES:

Performance G10.3.1 (a).

Statement on how the building product is expected to contribute to compliance:

Clause B2 DURABILITY:

Performance B2.3.1 (b) 15 years. Fiorini buffer tanks are designed to be installed in a location that is moderately easy to access and replace if installed in accordance with the instructions and product requirements.

Clause F2 HAZARDOUS BUILDING MATERIALS:

Performance F2.3.1. Fiorini Buffer tanks meet this requirement and not present a health hazard to people.

Clause G10 PIPED SERVICES:

Performance G10.3.1 (a). Fiorini Buffer tanks are supplied by a non-potable piping system, which contributes to meeting this requirement when used in heating systems.

- *options for compliance set out in section 19 of the Act (regulations, acceptable solution, verification method)*
- *standard or technical document that describes the performance of the building product or the relevant specifications to which the building product was manufactured.*
- *physical properties of the building product*
- *how the building product is intended to be used.*

Limitations on the use of the building product:

Please refer to the Fiorini Buffer tanks [technical drawings](#) and product specification supporting information provided on the Central Heating NZ website.

Buffer tanks are for use in non-potable water heating and cooling systems.

Design requirements that would support the use of the building product:

Please refer to the Fiorini Buffer tanks [technical drawings](#) and product [specification](#) supporting information provided on the Central Heating NZ website.

The Fiorini Buffer tank set out and related heating system is subject to site specific design by the heating system proprietor.

Designer must consider the requirement of building code clause H1 for buffer tank pipework installed outside the thermal envelope.

VKG-HC Hot & Cold,

VKG-HC - Hot & Cold outdoor,

VKG - carbon steel,

VKGE - carbon steel - outdoor,

VK - Galvanised,

VK - Galvanised - outdoor

VKT - enamelling

VKS - Internal Baffles

VKR - Conveyor Pipes

VKX - Stainless Steel

VKD - Diffusing Pipes

VKB 2.0

Installation requirements:

Please refer to the Fiorini Buffer tanks technical drawings and product specification supporting information provided on the Central Heating NZ website.

Buffer tanks must be installed on stable supporting structure, for fixing using the seismic restraint mounting points.

All positions and pipework outlet heights above finished floor level feeding a Fiorini Buffer tank is to be confirmed on site before installation. Co-ordination between trades is essential. Ensure the main contractor has been engaged when confirming buffer tank locations to ensure they do not interfere with other fixtures or fittings.

Fiorini Buffer tank [installation manuals](#) must be reviewed prior to installation to ensure bracket details and pipe positions are confirmed.

Installation of Fiorini Buffer tank system components must be carried out by a trained and qualified installer, familiar with the Fiorini Buffer tank system installation requirements.

Fiorini Buffer tanks system manuals and installation requirements must be available on site for reference during installation (either print or digital media).

A detailed as-built plan and site photos shall be provided upon the conclusion of installation showing location of all embedded/concealed pipework supplying the Fiorini Buffer tank(s)

Maintenance requirements:

Access for maintenance and inspection is required. Maintenance should be carried out in consultation with the system installer.

Is the building product/building product line subject to warning or ban under section 26:

Yes No

If yes, description of the warning or ban under section 26:

Date:

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