

DOPPEL-XX OFFICE BUILDING | HAMBURG

PROJECT DATA

Doppel-XX office building | Heidenkampsweg 77 | 20097 Hamburg | Germany

ARCHITECT | PLANNER

BRT Architekten Bothe, Richter, Teherani | Hamburg

SITE OWNER

Becken Investitionen & Vermögensverwaltung | Hamburg

INSTALLER

HSE Haustechnik GmbH | Gadebusch

INSTALLED EQUIPMENT

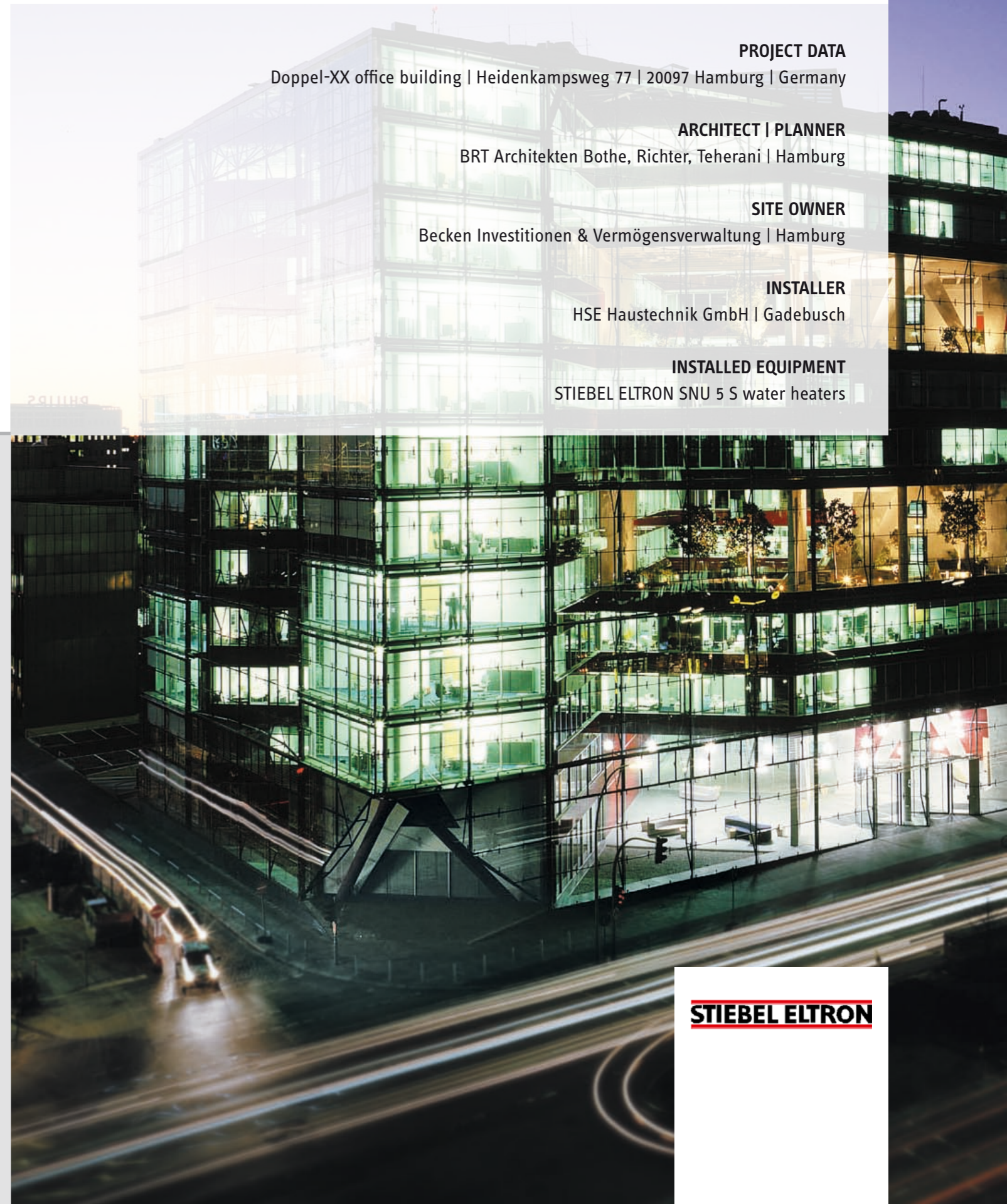
STIEBEL ELTRON SNU 5 S water heaters

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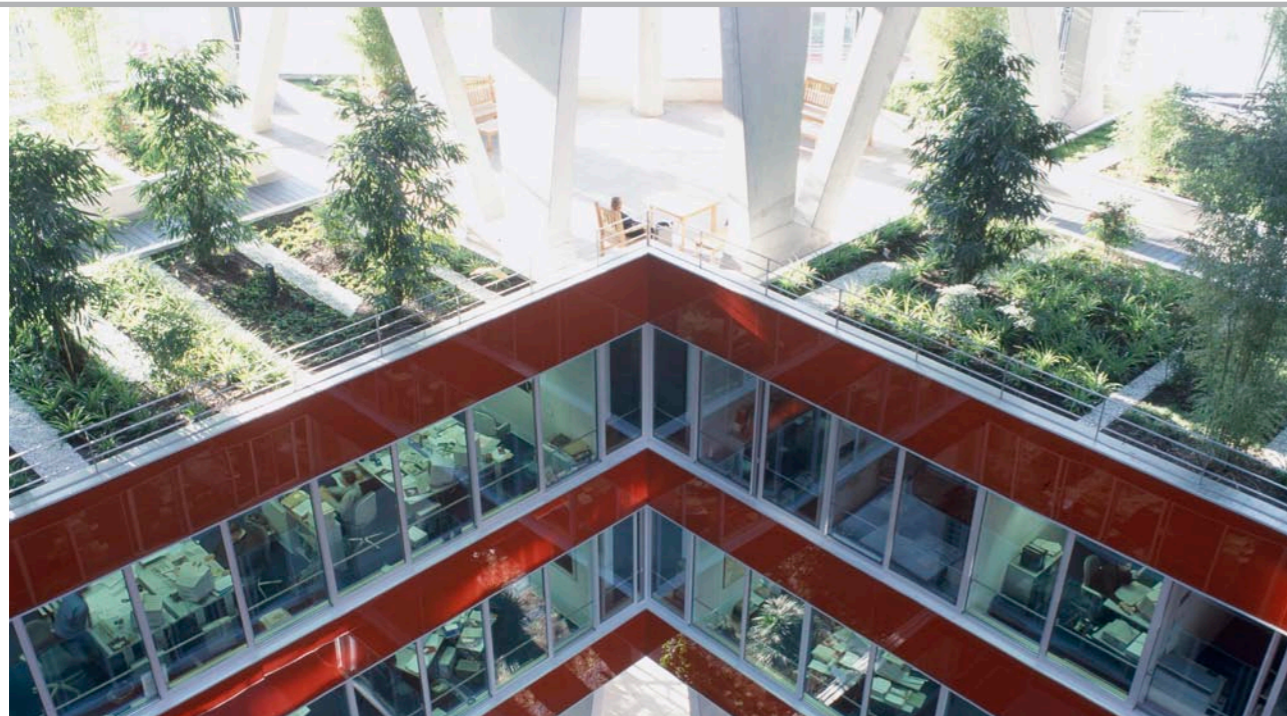
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DOPPEL-XX OFFICE BUILDING | HAMBURG



Exclusivity on all levels: generously dimensioned garden rooms ensure the working atmosphere is always pleasant.

OFFICE BUILDING DOPPEL-XX. THE CROSSING OF EFFICIENCY AND AESTHETICS.

Two crosses at the right place | Economic construction, outstanding aesthetics, low energy consumption, high workplace quality – the demands on modern office architecture are high and sometimes also contradictory. But Hamburg architect Hadi Teherani of the highly respected firm of architects Bothe, Richter, Teherani, achieved a magnificent success nevertheless. In terms of both form and content, the Doppel-XX office building, which was completed in August 1999, represents a breathtaking cross of efficiency and aesthetics. Form, because the building has a footprint consisting of two adjacent Xs, these being enveloped by a glass cube that extends to the top of the twelve-storey building. And content, because the arrangement allows low construction costs, low energy costs and ambitious architectonics.

Inside but always a bit outside | Thanks to the glass envelope, the offices can do without an air-conditioning system. What is more, this reduces the heating costs in winter by almost half, while acting throughout the year as a

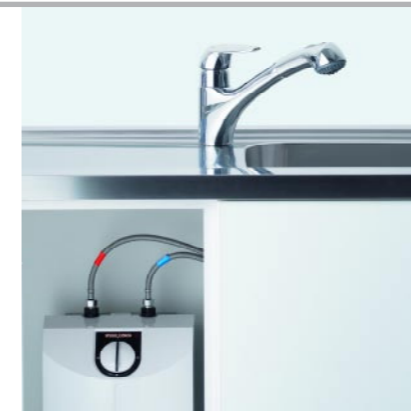
buffer zone that keeps away annoyances such as rain, wind noise and dust. In the crossing points of each X are accommodated service facilities such as kitchens, toilets and photocopying rooms. Triangular garden rooms fill the otherwise unused space between office and outer façade on every other floor and give the feeling of working outside. In general, the working quality and ambience of the 72 offices of 220 sq m each can be described as sensational.

The well-tended impression carries through into the detail | When it comes to the hot water supply, water heaters from STIEBEL ELTRON ensure pleasantly warm comfort in both kitchen and bathroom. To avoid long pipe routes and therefore loss of energy, water heaters from the SNU range each supply only one draw-off point exactly where needed. Highly efficient insulation materials ensure perfect thermal insulation, so the water heaters from STIEBEL ELTRON follow, on a small scale, the big example in which they were installed.



Doppel-XX office building | Hamburg

Realisation 1997–1999
Glazed area 8,500 sq m
Gross floor area 20,000 sq m
72 units each of 220 sq m area
Height of building 48 metres



The conception of the Doppel-XX office building pursues the low-tech idea | The philosophy of low-tech is as far as possible to replace expensive and complex technologies by good ideas and simple working principles. Technology has been deliberately reduced to a minimum throughout the building. The idea of making the technology used as efficient as possible lead to a non-central hot water supply. This is because the non-central

EFFICIENCY ARISES WHEN DEMAND IS PERFECTLY MATCHED BY SUPPLY.

approach very much fits in with the low-tech conception. By using technology efficiently, hot water is made available precisely where needed and is both economic as well as environmentally compatible. Water at the required temperature is available as soon as you open the tap and water wastage is therefore kept to a minimum.

« WHY NOT PRODUCE HOT WATER EXACTLY WHERE IT IS USED? »

A further important advantage over central hot water systems with complex control equipment is energy efficiency. Especially in large buildings, long pipe routes can mean heat loss far exceeds the real demand for useful heat. The output from a non-central hot water system is adjusted to the user's needs at all

times. With temperatures freely selectable between 35 °C and 85 °C, these stored water heaters are constantly ready to supply hot water. The different sizes and heat outputs available mean the units can be optimally matched to the specific requirements. No matter whether they are to be mounted under or over a sink, in the kitchen or in the sanitary area, they offer enormous flexibility in terms of installation site, too. The low standby energy consumption and maintenance need make them an intelligent and efficient investment for the long term, too.

SNU 5 S | The open SNU 5 S water heaters installed in the Doppel-XX office building win over through extremely low energy consumption. A highly compact insulation system contributes to the fact that it has the lowest standby electricity consumption in its class.

Furthermore, it sets standards in terms of comfort and safety: thermal control makes sure the water content is kept at the set temperature. The selector switch allows you to limit the temperature to 38, 45, 55 or 65 °C. The SNU is available in 5 and 10 litre versions and with different heat outputs. Depending on model, the standby energy consumption per day is 0.21 or 0.32 kWh – and this with constant water temperature virtually across the entire volume.



SNU 5 S