

Freshwater units RATIOfresh / tubra®-nemux S



Wagner Solar

ENERGIETECHNIK
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RATIOfresh 500 / 810



tubra®-nemux S

The **RATIOfresh and tubra®-nemux S freshwater units** prepares hot water only when needed. This is solar hot water generation of the future - hygienic and demand based.

STANDOUTS

- Hygienic domestic water
- High water heating comfort
- Extremely light and compact
- Versatility included

DETAILS

The RATIOfresh and tubra®-nemux S freshwater units provides domestic hot water by means of flow-through heating, exactly when needed. Storing of domestic hot water is not required anymore.

Intelligent pump logic and a generously sized heat exchanger guarantee high hot water comfort with great energy efficiency.

The fresh water station tubra®-nemux S is extremely compact, completely pre-assembled and prepared for quick connection to the storage and domestic water circuit.

RATIOfresh 500 and 810 is equipped with extensive circulation, disinfection and cascading functions.

tubra®-nemux S

For hygienic domestic water heating by flow-through process in single family homes.

Integrated tubra® fresh water controller with extensive range of functions:
Three circulation programmes, cascade function, return flow layering, dynamic reduction of the set temperature, comfort function (warm start by pre-heating the plate heat exchanger), hygiene programme and thermal disinfection

Powerful soldered stainless steel heat exchanger. For maximized solar yield through low return flow temperatures in the buffer storage circuit



Completely thermally insulated, particularly compact and lightweight construction, weighs only 9 kg



Prepared for re-circulation operation

Demand driven high efficiency power saving circulation pump

Easy commissioning and installation, either on the wall or directly on the storage (with optional storage connection set)



ISFH TESTED

The German Institute for Solar Energy Research (ISFH) has tested the fresh water station tubra® nemux S and attests a very high control quality and efficiency: Best measured station in comparison with other stations of the same capacity.



RATIOfresh 500 and 810

For hygienic domestic water heating by flow-through process in apartment houses as well as hotels, sports facilities and industrial settings.

Easy and quick installation with flat sealing screw connections and standard power plug (230 V)

Controller with extensive re-circulation, disinfection and return-flow functions. Cascading of up to 4 stations.

Generously sized stainless steel plate heat exchanger, high-quality EPP-insulation



FRESH LINE - SOLAR PACKAGES WITH FUTURE

RATIOfresh 210, 500 and 810 also are included in the FRESH line solar packages. They offer the highest possible flexibility. Storage tanks, collector types and freshwater units can be freely combined.

The packages hence are available for a variety of solar yields and almost any imaginable building situation.

More information at:
www.wagner-solar.com



The image shows a large, grey, rectangular device labeled 'tubus-nemus S'. It has a digital display on the front showing '0.000000' and '0.000000'. There are several connection ports on the top and bottom, including a red one on top and a blue one on the bottom. The device is mounted on a wall.

The diagram shows two identical two-stage gas boilers connected to a common manifold. Each boiler has a digital display and control panel. The manifold is a vertical pipe with two horizontal branches, each leading to a boiler. The boilers are connected to a common gas supply line and a common vent line. The vent line has two elbows, one for each boiler, leading to a common vent pipe. The gas supply line has two elbows, one for each boiler, leading to a common gas supply pipe. The manifold is labeled 'MANIFOLD' and 'GAS'.

Re-circulation set for RATIOfresh
500 / 810 with high efficiency
circulation pump



Cascade set for RATIOfresh 500 / 810

Freshwater units	tubra®-nemux S	tubra®-nemux S VE	RATIOfresh 500				RATIOfresh 810			
Version	Stainless steel heat exchanger	Full stainless steel heat exchanger								
Nominal capacity 10 °C → 45 °C (secondary, l/min) 60 °C (primary)	20,5		50				77			
10 °C → 60 °C (secondary, l/min) 45 °C (at tap) 70 °C (primary)	27,0		53				82			
Coefficient of performance N _L	3		cascade 2 x 3 x 4 x				cascade 2 x 3 x 4 x			
10 °C → 45 °C (sec.) 85 °C (prim.)			28	86	155	230	58	160	280	405
10 °C → 60 °C (sec.) 75 °C (prim.)			19	61	112	169	39	114	200	296
Installation type	wall mounting									
Dimensions (LxWxH, mm)	425 x 350 x 190					795 x 602 x 298				
Weight (kg)	9		27				42			