

# Schüco Solar Storage Tank

Solar Tank 80 HE-2/105 HE-2



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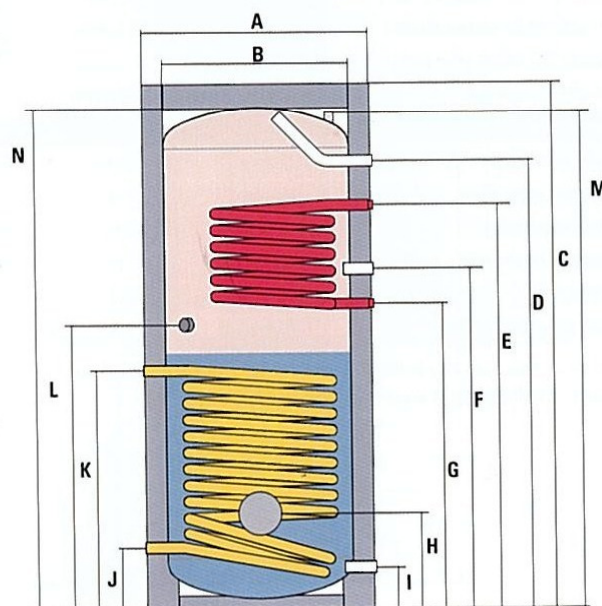
The Schüco Solar Tank HE-2 is a well-crafted, extremely durable solar storage tanks that come in 80 and 105 gallon sizes.

These tanks are designed in accordance with the latest information on energy efficiency, energy conservation, functionality and corrosion protection. The units can be readily connected to the solar station using prefabricated connection pipe assemblies.

The double-glass-lined steel tank has a removable vinyl-coated jacket with 3.2 inches of foam insulation.

The heat exchanger at the bottom of the tank is also double-glass lined. A large cleanout port at the bottom of the tank ensures easy maintenance and maximum long-term efficiency.

There is a one-inch cold water inlet at the bottom of the tank and a one-inch hot water outlet at the top. A magnesium anode rod protects the tank from aggressive water corrosion.



Solar Storage Tank HE-2

## Features

- Insulation: 3.2 in. (80 mm) foam with removable plastic casing, blue RAL 5002
- Fitted with a magnesium anode rod for cathodic corrosion protection
- Three feet for easy leveling on uneven garage floor surfaces
- Terminal strip for temperature sensor
- Temperature sensor terminal strips for upper and lower heat exchanges
- Oversized integrated heat exchanger for excellent heat transfer
- Display thermometer
- Second internal heat exchanger for auxiliary heating
- Hot water corrosion protection with enamel coating according to DIN 4753 T3
- Test pressure level: 217 psi (15 bar)
- Tank cleaning port for easy flushing and cleaning

Schüco Solar Storage Tank		Unit	80 HE-2	105 HE-2
Schüco Article Number			232 135	232 136
<b>Dimensions</b>				
	Storage capacity	gal. (L)	77.9 (295)	103 (390)
C	Height with insulation	in. (mm)	71.1 (1805)	72.4 (1840)
A	Diameter	in. (mm)	26 (660)	28.7 (730)
B	Diameter without insulation	in. (mm)	19.7 (500)	22.4 (570)
	Height when in tilt position	in. (mm)	75.7 (1922)	78 (1980)
	Weight when empty	lbs. (kg)	260.1 (118)	330.69 (150)
<b>Technical data</b>				
	Maximum system pressure	psi	Appr. 160.0	Appr. 160.0
	Maximum tank test pressure	psi (bar)	217.6 (15)	217.6 (15)
	Maximum system temperature	°F (°C)	203 (95)	203 (95)
	Surface area HE	sq.ft (m <sup>2</sup> )	12.2 (1.2)	15.6 (1.45)
	Volume HE	gal. (L)	2 (7.5)	2.5 (9.4)
	Maximum operation pressure HE	psi (bar)	217.6 (15)	217.6 (15)
<b>Performance</b>				
	Flow Rate	gal/h (L/h)	237.5 (899)	298 (1128)
	Perman. performance upper HE	kW	23.2	23.3
	Perman. performance lower HE	kW	36.6	45.9
	Standby losses in 24 hours**	kWh/d	< 2.8	< 3.1
<b>Connection height</b>				
E	Height heater inlet	in. (mm)	50 (1270)	51.8 (1315)
G	Height heater return	in. (mm)	39.4 (1000)	41.1 (1045)
K	Height solar inlet	in. (mm)	28.7 (728)	31.1 (790)
J	Height solar return	in. (mm)	10.4 (263)	12.6 (320)
D	Warm water outlet	in. (mm)	60 (1523)	60 (1525)
I	Height cold water inlet	in. (mm)	9.4 (238)	10.4 (265)
F	Height circulation socket	in. (mm)	43.7 (1110)	45.4 (1155)
H	Height revision flange DN 180	in. (mm)	12 (305)	13.6 (345)
L	Height port for heating element	in. (mm)	35.4 (900)	35.8 (910)
M	Height T&P relieve valve port	in. (mm)	67.3 (1710)	68.8 (1747)
N	Height to anode rod	in. (mm)	67.9 (1725)	69.4 (1762)
<b>Connections</b>				
	Solar advance and return	G (female)	1	1
	Cold and warm water	G (male)	1	1
	Circulation socket	G (female)	3/4	3/4
	Screw-in heating unit	G (female)	1 1/2	1 1/2
	T&P valve	G (female)	1	1
	Tank drain	G (female)	1	1

\* Performance data according to DIN 4708 at 80° / 10° / 45°C (176° / 50° / 113°F).

\*\* Maximum standby losses in accordance with standard DIN 4753 T8.