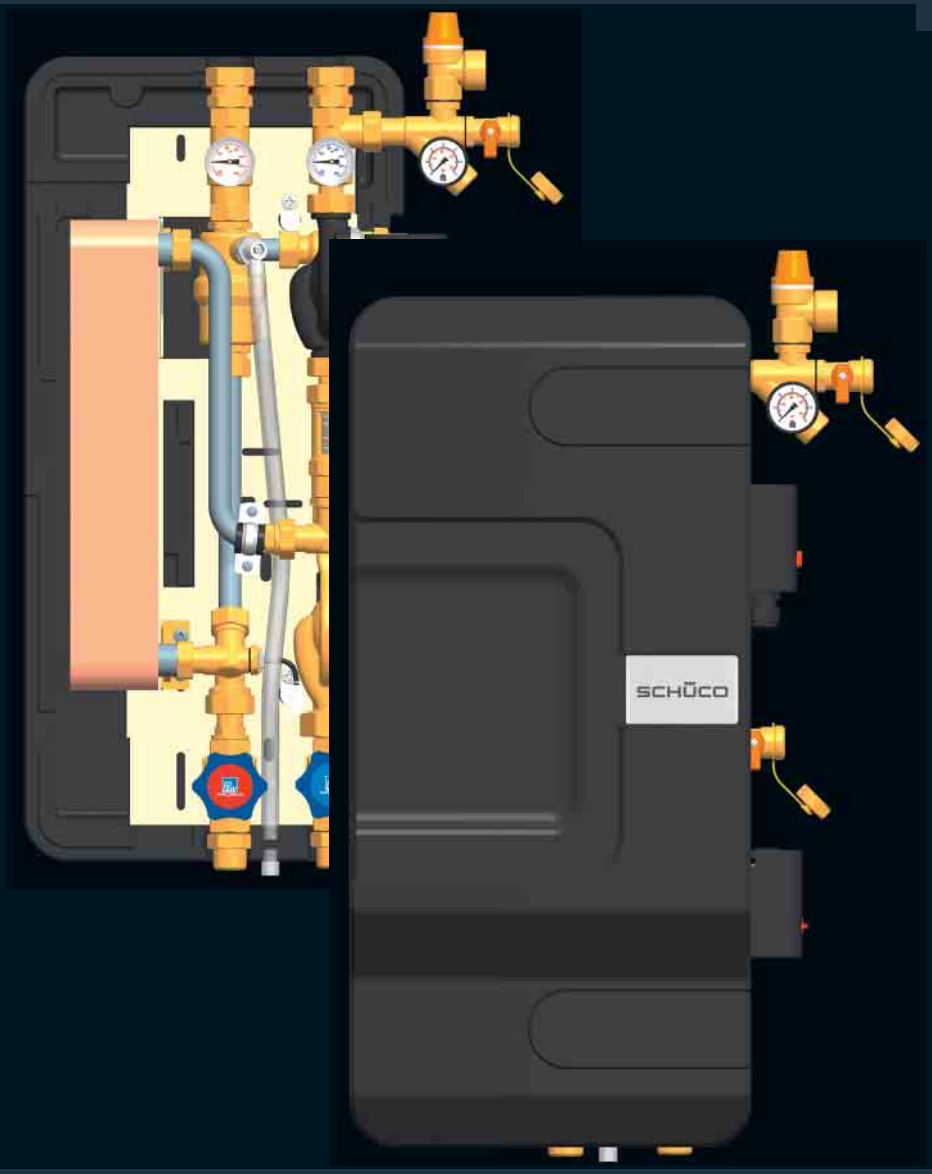
Schüco STE 5021 FW US

Large Area Heat Transfer Station



SCHÜCO

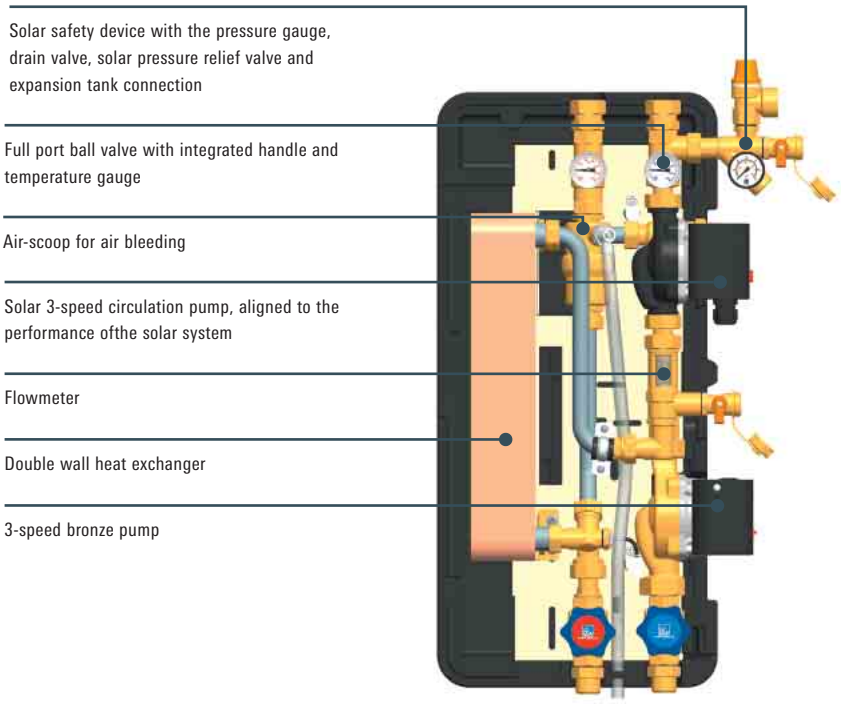
Schüco STE 5021 FW US
Large Collector Area Heat Transfer Stations

The Schüco STE 5021 FW Large Collector Area Heat Transfer Stations a compact hydraulic pump group for large solar installations. The compact stations contain an integrated solar heat exchanger and pumps for the solar and domestic hot water circuits

The large installation transfer station is suitable for solar thermal installations with a collector area of up to 540 sq. ft (50 m^2).

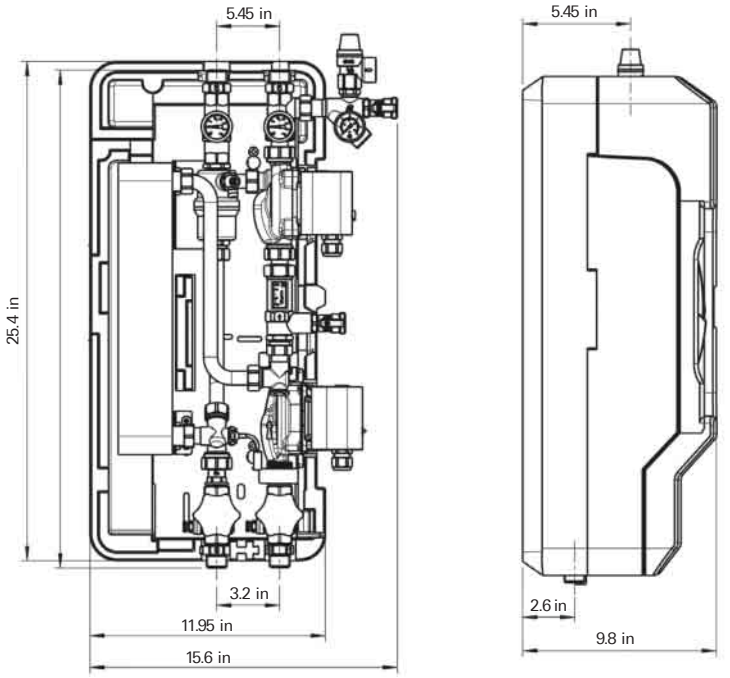
Key Features
- Compact construction for simple and space-saving installation
- Heat exchanger using the reverse flow principle for maximum transfer output
- Thermal insulation sections reduce heat losses
- Adapted to Schüco manifold-serpentine configuration

STE 5021 FW US Large Collector Area Transfer Station



Type	Residual head pressure at maximum flow rate primary/secondary (ft)	Maximum flow rate (US gal / min)	Secondary side minimum cross section with a pipeline length of 38 ft (10 m)	Maximum collector area aperture area (in ft)
STE 5021 FW US	18.7 / 14.8	3.3	3/4“	540

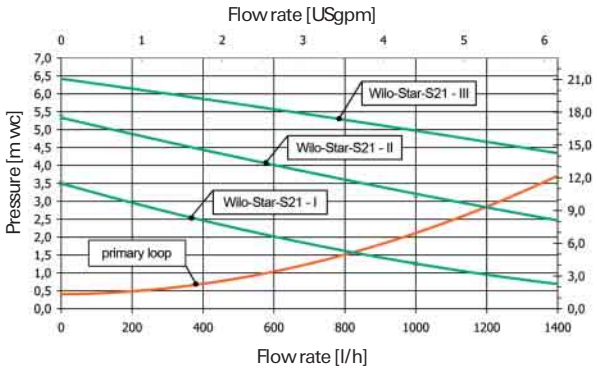
LF-50 US



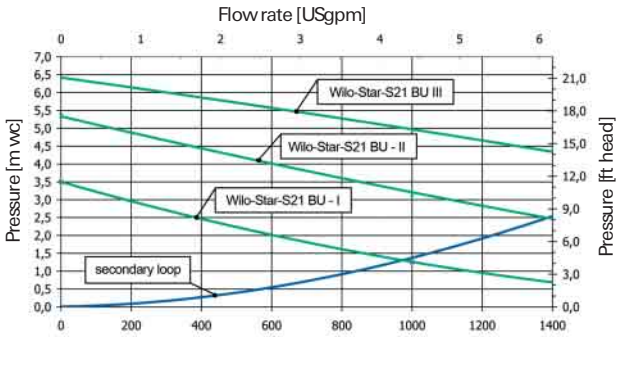
Technical Data

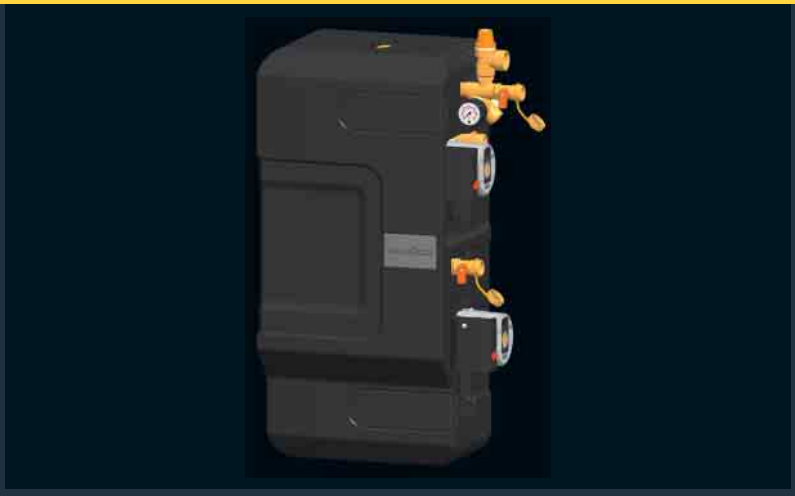
Application area	STE 5021 FW US (LF-50DW)
Schüco article number	271 751
Equipment	
Air separator	Internal
Changeover valve cylinder flow	External (optional)
Volume flow (adjustable, solar circuit)	With flow check 3.5 gpm
Volume flow (adjustable, buffer circuit)	
Performance	
Max. absorber surface	540 square foot (50 m^2)
Max. volume flow (solar circuit)	3.3 gpm
Max. volume flow (buffer circuit)	3.1 gpm
Combinable collectors	
Collector hydraulics	Manifold-serpentine
Measurements and weight	
Height (with insulation casing)	25.6 in
Width (with insulation casing)	15.6 in
Depth (insulation sections)	9.8 in
Between centers, primary flow	5.45 in
Between centers, secondary flow	3.5 inch (90 mm)
Weight	80.46 lbs
Pipework	
Primary input	3/4“
Primary output	
Secondary input	
Secondary output	
Cylinder return flow	
Expansion vessel	G 3/4
Temperature and pressure	
Thermometer	32 – 320 °F
Manometer	0 – 140 psi
Safety valve	87 psi
Heat exchanger type	Double wall vented
Material	Copper brazed stainless steel

Pressure drop solex DWHX primary / pump characteristics



Pressure drop solex DWHX secondary / pump characteristics





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As a leading innovator in system-based construction, Schüco supplies components for the entire building envelope, including software solutions for planning, design, calculation, and fabrication.

- **Aluminum systems**
- **Steel systems**
- **PVC-U systems**
- **Solar systems**
- **Schüco Design**

Transfer Stations for All Large Solar Installations

The Schüco large installation transfer station is a compact hydraulic pump group for large solar installations. The type STE solar transfer stations are built to a compact design with integrated heat exchangers and pumps for the solar and buffer circuits. Type STE stations are of modular construction for greater exibility using a layout with two pump units and one heat exchanger.

Schüco USA L.P.
www.schuco-usa.com

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Specifications subject to change without notice.