

## 4 SolvisVital

### 4.1 Fresh water station (FWS-xxx)

General		FWS-36	FWS-70	FWS-98	FWS-126
Discharge output at 60°C outlet temperature	[kW]	85	170	235	300
Volume flow at 60°C outlet temperature	[l/min]	24	49	67	86
Rated discharge output at 50°C outlet temperature	[kW]	100	195	273	351
Rated volume flow at 50°C outlet temperature	[l/min]	36	70	98	126
Rate output of the circulation buffer at $dT = 5\text{ K}$	[kW]	2	5	8	14
Total weight (filled) [kg]		90	110	210	260

Connections					
Flow/return WW-PWÜ <sup>Ⓐ</sup> and <sup>Ⓔ</sup>		1¼" female	1¼" female	1½" female	1½" female
Cold/hot water <sup>Ⓚ</sup> and <sup>Ⓜ</sup>		1¼" female	1¼" female	1½" female	1½" female
Circulation <sup>Ⓩ</sup>		¾" female	¾" female	¾" female	1¼" female
Return CB (ZW) <sup>Ⓑ</sup>		CU 18 x 1	CU 18 x 1	CU 18 x 1	CU 28 x 1

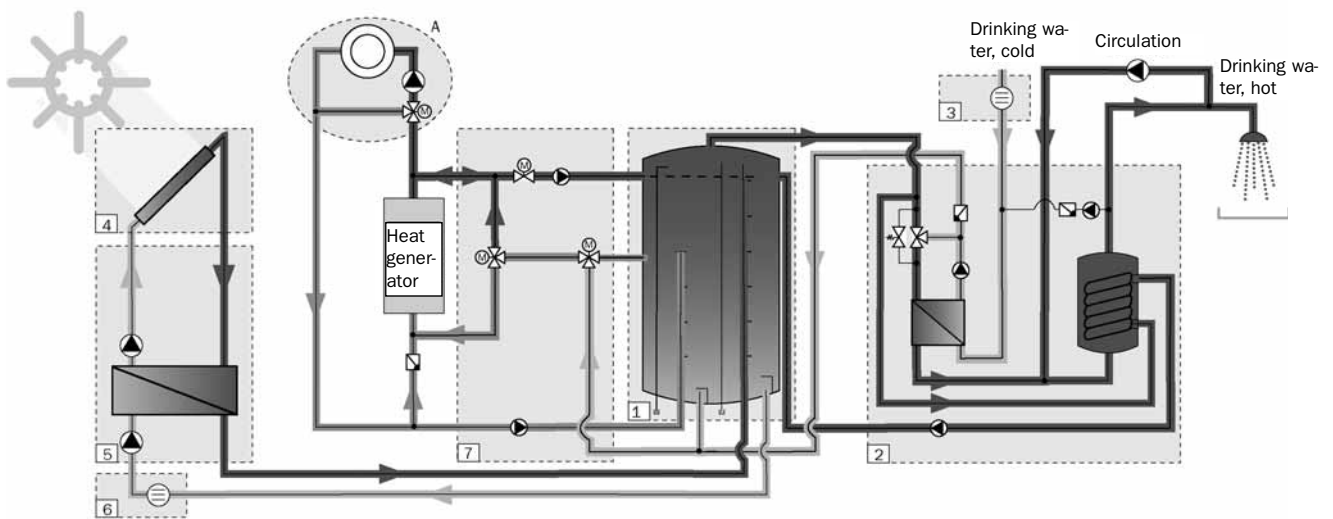
Components in the Drinking Water Circuit					
Plate heat exchanger Alfa Laval		CB52-30H	CB52-60H	CB76-61A	CB76-91A
Capacity: drinking water	[l]	24	26	75	77
Ridged tube heat exchanger in circulation buffer		WRW13	WRW18	WRW26	WRW45-2

Hydraulics					
Drinking water heating pump (A2)		Star-RS 25/7	UPS 32-80	UPS 32-80	UPS 32-80
Circulation buffer load pump (A1)			Star-RS 15/7		
Compensation pump (A10)			Star-Z 15		
Maximum permitted operating pressure		Buffer tank: 3 bar, drinking water: 10 bar			
Permitted media temperature		95°C with max. ambient temperature 40°C			

Electrical					
Control		SolvisControl system controller			
El. voltage supply		230 V AC/50 Hz			
Maximum power consumption fresh water station	[W]	132	132	245	245
Max. power consumpt. solar heat transfer station	[W]	250	250	250	250
Maximum total power consumption	[W]	382	382	495	495

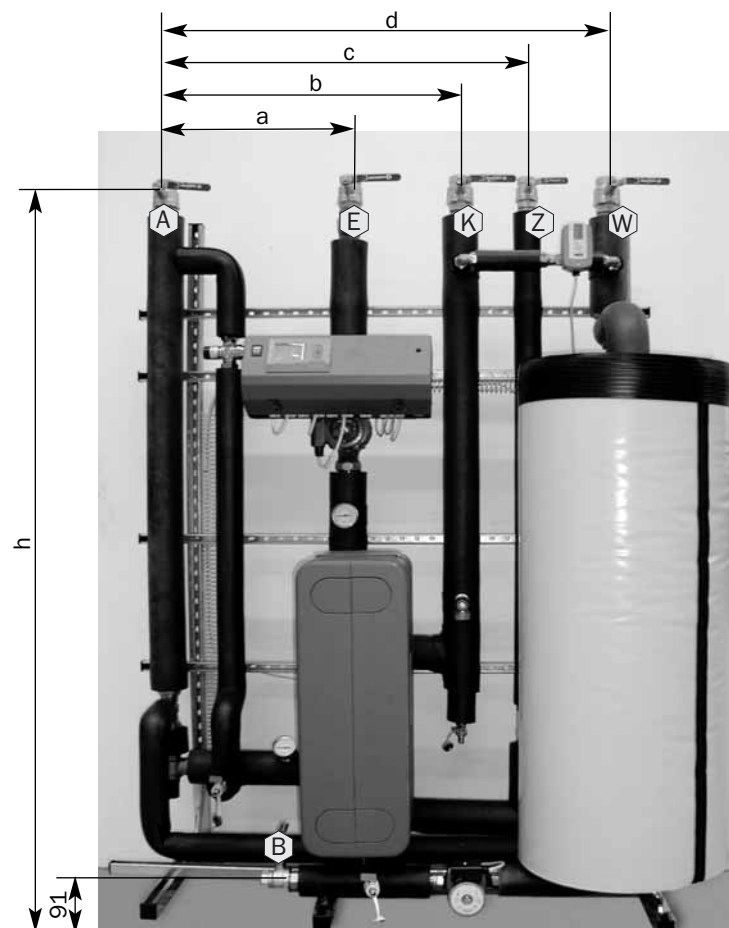
Dimensions					
Width	[mm]	1,040	1,040	1,360	1,490
Depth	[mm]	580	580	700	700
Height h (= conn. height <sup>Ⓐ</sup> , <sup>Ⓔ</sup> , <sup>Ⓚ</sup> , <sup>Ⓩ</sup> , <sup>Ⓜ</sup> )	[mm]	1,590	1,600	1,810	1,850
Connection height conn. <sup>Ⓑ</sup>	[mm]	91	91	91	91

Distances of Pipes from Pipe Centre					
a	[mm]	300	300	395	496
b	[mm]	494	494	655	793
c	[mm]	640	640	820	970
d	[mm]	790	790	1,035	1,170
Wall to group <sup>Ⓐ</sup> , <sup>Ⓔ</sup> , <sup>Ⓚ</sup> , <sup>Ⓩ</sup> and <sup>Ⓜ</sup>	[mm]	141	141	146	151
Wall to <sup>Ⓑ</sup>	[mm]	415	415	480	491



- | Solvis modules:                       | On-site assemblies:      |
|---------------------------------------|--------------------------|
| 1 SolvisStrato stratified buffer tank | A Mixed heating circuits |
| 2 Fresh water station FWS-xxx         |                          |
| 3 Volume flow encoder VSG-xx,x        |                          |
| 4 Solar collectors                    |                          |
| 5 Solar heat transfer station SÜS-XX  |                          |
| 6 Volume flow measuring unit VSM-SC   |                          |
| 7 EBS Discharge/charge station        |                          |

**SolvisVital – Complete system with Fresh Water Station**



**Dimensions: FWS-xxx Fresh Water Station**