

Outline principle

F1145/F1155 with water heater/accumulator tank with solar coil (floating condensing).

Application

Houses with water-borne heating systems.

Function

F1145/F1155 works with fixed condensing to the hot water section (upper) and with floating condensing against the heating section (lower) in VPAS.

Additional heat can be connected via the coil in the lower section of VPAS, which is not regulated from the heat pump (e.g. solar panel installation, wood-fired boiler).

Two immersion heaters can be connected to VPAS as further additional heat, however, these cannot be regulated from the heat pump.

This docking type the internal heating medium pump must be set to intermittent operation in menu 5.1.10.

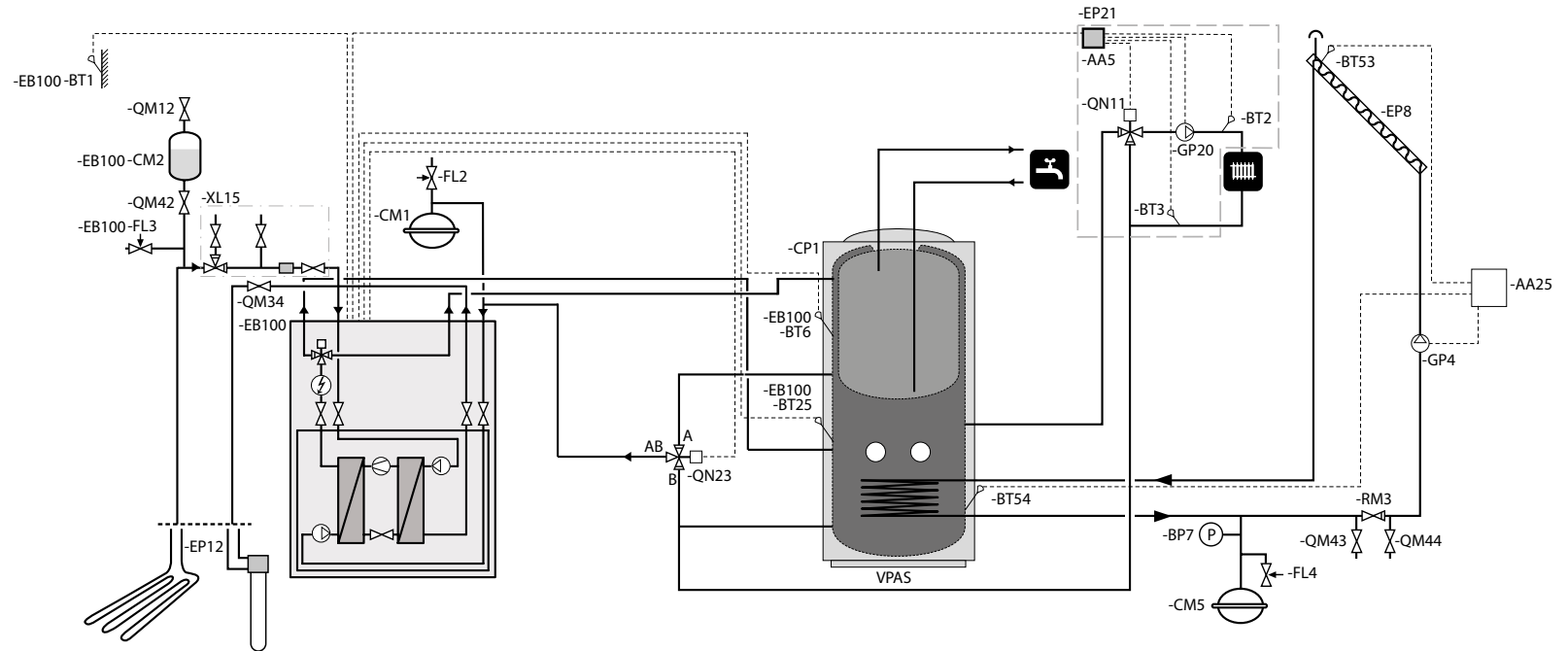
The software controlled outputs AA3-X7 are set in menu 5.4 to "external HW valve" and "climate system 2" is deactivated in menu 5.2.

NOTE! This docking type requires a program software version in heat pumps that is 901 or higher.

NOTE! This is an outline diagram. Actual installation must be designed according to applicable norms.

NOTE! NIBE does not supply all components in this outline diagram.

See the appropriate "Installer manual" for more information.



Designations according to standard IEC 81346-1 and 81346-2.

List of Components

F1145/F1155 with water heater/accumulator tank with solar coil (floating condensing).

Pos	Name	Product name	Supplier	Art no.	Remarks
EB100	Heat pump	F1145/F1155	NIBE		
BT1	Outdoor temperature sensor		NIBE		Included in F1145/F1155
BT6	Hot water temperature sensor		NIBE		Included in F1145/F1155
BT25	External supply temperature sensor		NIBE		Included in F1145/F1155
CM2	Level vessel		NIBE		Included in F1145/F1155
FL3	Safety valve, brine		NIBE		Included in F1145/F1155
EP21	Climate system 2	ECS 40/ECS 41	NIBE	067 287/067 288	ECS 40 Max 80 m ² . ECS 41 approx 80-250 m ² .
AA5	Accessory card		NIBE		Included in ECS 40
BT2	Supply temperature sensor 2		NIBE		Included in ECS 40
BT3	Return temperature sensor 2		NIBE		Included in ECS 40
GP20	Circulation pump		NIBE		Included in ECS 40
QN11	Shunt valve		NIBE		Included in ECS 40
Other information					
AA25	Control box, solar				
BP7	Manometer, solar				
BT53	Sensor, solar panel				
BT54	Sensor, solar coil				
CM1	Expansion vessel		NIBE		
CM5	Expansion vessel				
CP1	Accumulator tank	VPAS 300/450	NIBE	087 720	
EP8	Solar panel				
EP12	Ground-source heating/horizontal ground collector				
FL2	Safety valve, heating medium				
FL4	Safety valve, solar				
GP4	Circulation pump, solar				
RM3	Non-return valve				
QM12	Filler valve, brine				
QM34	Shut off valve, brine return				
QM43	Shut-off valve				
QM44	Shut-off valve				
QN23	Reversing valve	VST 11	NIBE	089 152	
XL15	Filling set, brine	HTF R25/G32	NIBE	089 368/089 971	Brine R25 (max 12kW) Brine G32 (max30kW)

Connecting reversing valves

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In this docking alternative the external reversing valve must be connected to terminal block AA3-X7.

