

Application

Houses with cooling requirement.

Function

The cooling/heat requirement is controlled by the outdoor sensor (15) in combination with the room sensor (33).

When passive cooling is required, the circulation pumps in the heat pump start, to circulate fluid from the rock collector through the building's distribution system and cool the building. Cooling comes from the rock collector.

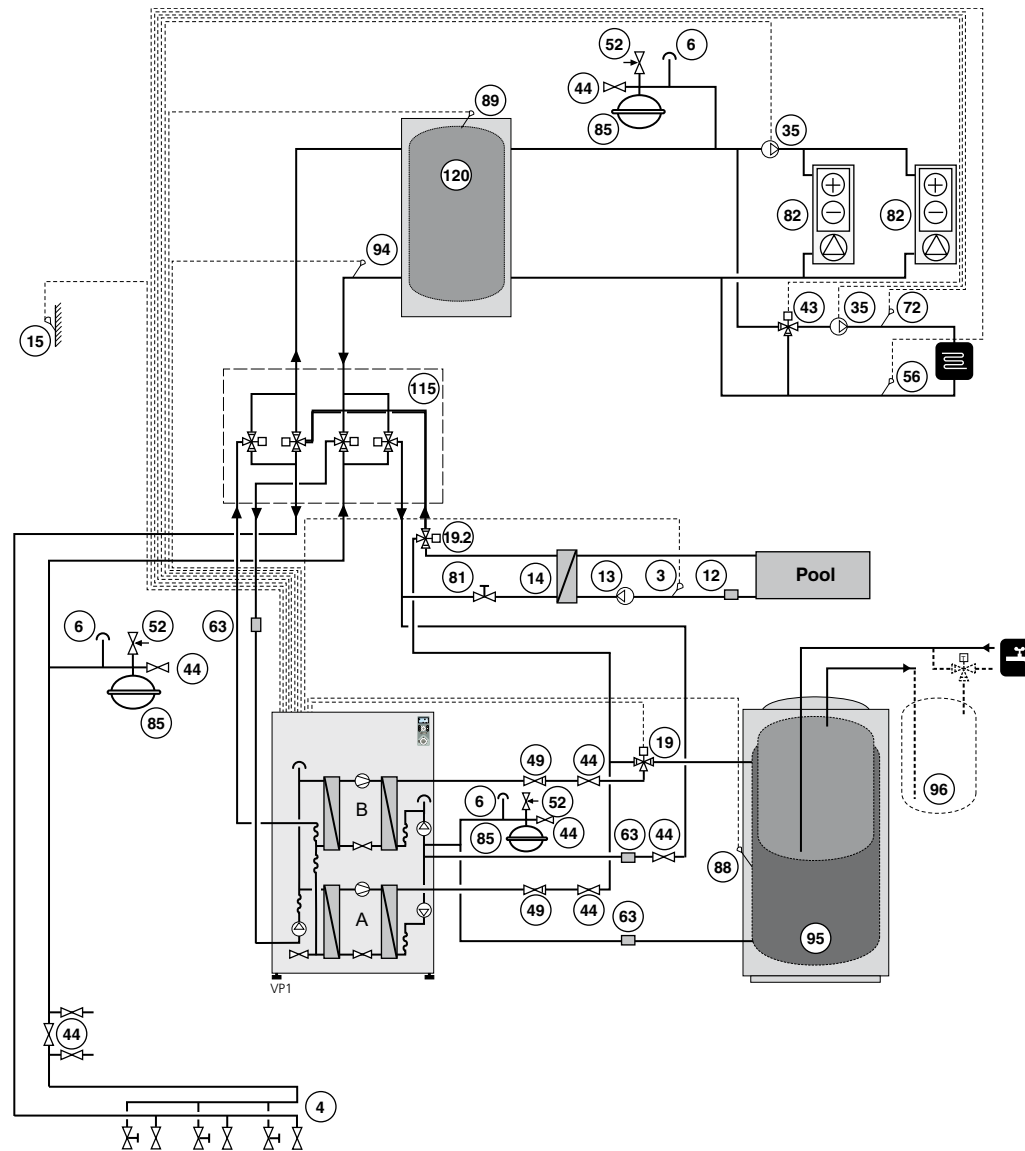
When passive cooling is not sufficient, the heat pump starts production of active cooling.

With active cooling the compressor in the heat pump starts and the resulting cold medium circulates to the building's distribution system and the heat circulates out to the rock collector.

The pool exchanger is connected to the heating system via a three way valve (19-2). When the pool temperature sensor (3) demands heat, the pool exchanger valve (19-2) switches to the pool. If there is a demand for both the radiator system and pool at the same time, heating switches periodically between the two.

F1330 prioritises charging of hot water with half the power (heat pump module B) via a 3-way valve (19-1). When the water heater/accumulator tank is fully charged (95), the three way valve (19-1) switches to the heating circuit.

See the appropriate "Installation and Maintenance Instructions" the relevant function descriptions for more information.



Note! This is an outline diagram. Actual installations must be planned according to applicable standards.

M10515 – F1330 with passive and active cooling as well as pool and shunt 2.

List of Components

Pos	Name	Specification	Manufacturer	Part No.	Remarks
VP1	Heat pump	F1330	NIBE		
4	Rock collector				
12	Particle filter pool				
13	Circulation pump pool				
14	Exchanger				
15	Outdoor temperature sensor		NIBE		Included in F1330
19	Shuttle valve	VST 20	NIBE	089 388	
35-1	Circulation pump system 1				
35-2	Circulation pump system 2				
43	Shunt valve				
44	Shut-off valve				
49	Non-return valve				
52	Safety valve				
56	Return sensor 2				
63	Particle filter		NIBE		Included in F1330
72	Flow sensor 2				
82	Fan convectors				
85	Expansion vessel				With req. safety equipment
89	Flow sensor		NIBE		Included in F1330
94	Return line sensor		NIBE		Included in F1330
95	Accumulator with water heater	VPA	NIBE		
96	Add. water heater				
104	Expansion card	EXP-11	NIBE	067 042	
115	Passive/Active Cooling module	HPAC 42	NIBE	067 025	
120	Neutralization vessel				