

M10498 – FIGHTER 1330 with additional heat, hot water heater with solar coil as well as pool. Heating via ventilation coil.

Application

Large houses and apartment buildings, industrial premises or similar with supply air coils.

Function

The heat pump prioritises loading of hot water with half the power (heat pump module B) via a 3-way valve (19). When the hot water heater/accumulator tank is full (95), the shuttle valve (19) switches to the heating circuit.

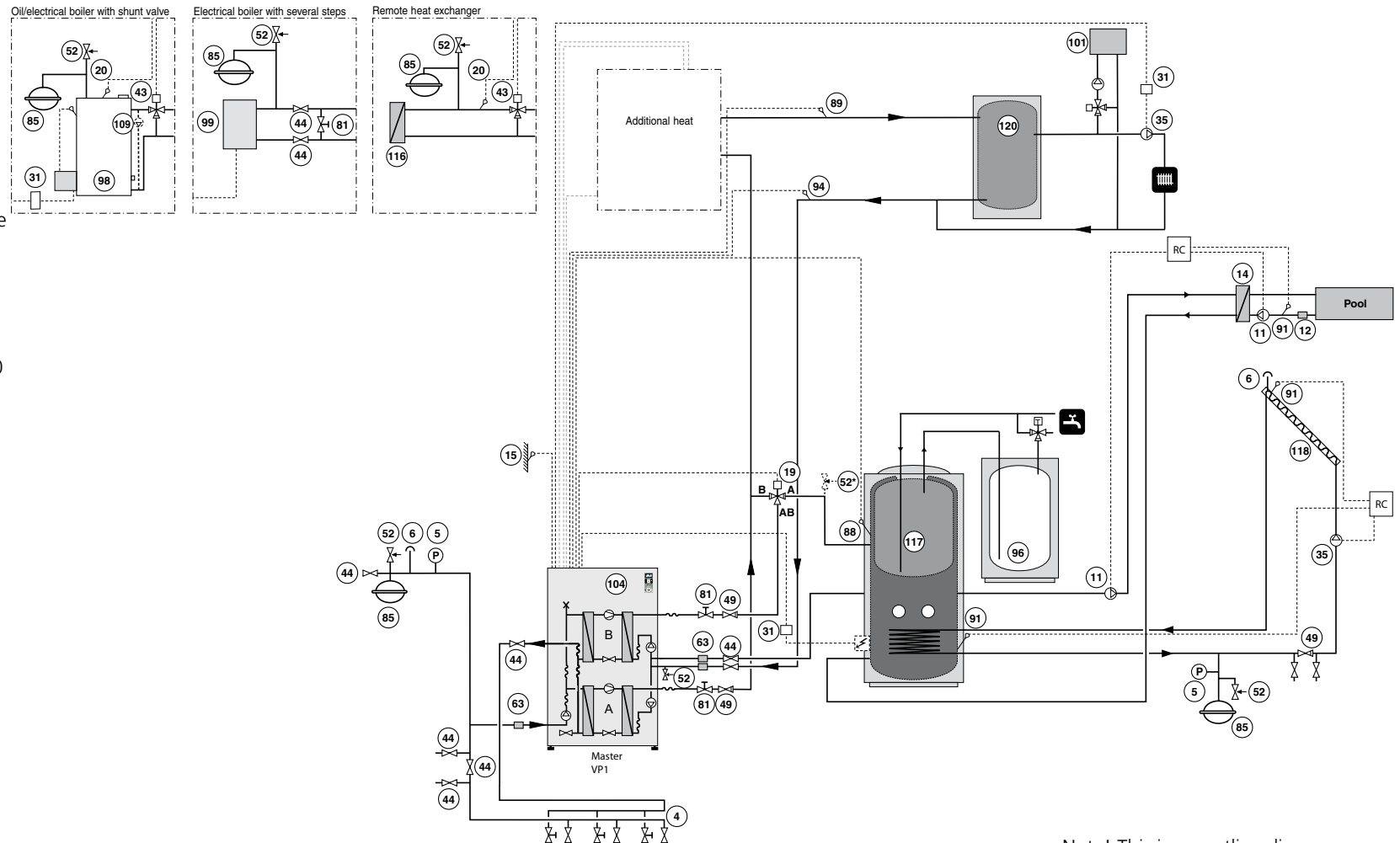
When there is a heat requirement, module A starts first. For larger heating requirements, module B also starts. FIGHTER 1330 connects the additional heat when the power demand exceeds the heat pump's capacity.

The accumulator tank (120) is used as a buffer for the supply air battery (101).

Pool charging occurs via VPAS (117).

The temperature in VPAS is maintained by solar panels and the heat pump.

If VPAS (117) is fitted with an immersion heater (IU) and a junction box (K11) the "Extra hot water" function can be used. A by-pass contactor is recommended.



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

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

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List of Components

Pos	Name	Specification	Manufacturer	Part No.	Remarks
VP1	Heat pump	FIGHTER 1330	NIBE		Master
4	Rock collector/Soil collector				
5	Pressure gauge				
6	Venting				
11	Circulation pump, pool		Pahléns Fabriker		Tel: 08 - 59 41 10 50
12	Particle filter, pool		Pahléns Fabriker		Tel: 08 - 59 41 10 50
14	Exchanger, pool		Pahléns Fabriker		Tel: 08 - 59 41 10 50
15	Outside temperature sensor (UG)		NIBE		Included in FIGHTER 1330
19 **	Reversing valve (RV)	VST 11	NIBE	089 152	Included in VST 11 max 17 kW charge power
19 **	Reversing valve (RV)	VST 20	NIBE	089388	Included in VST 20 max 40 kW charge power
31	Auxiliary relay/Contactor with bypass	HR 10	NIBE	089 423	
35	Circulation pump				
43	Shunt valve (SV-P)	Motor shunt (230 V)			Also included in existing control equipment
44	Shut-off valve				
49	Non-return valve				
52 *	Safety valve				SÄV on refrigerant page included in FIGHTER 1330
63	Particle filter		NIBE		Included in FIGHTER 1330
81	Control valve				
85	Expansion vessel				With req. safety equipment
88	Hot water sensor (HWS)		NIBE		Included in FIGHTER 1330
89	Flow line sensor (FG)		NIBE		Included in FIGHTER 1330
91	Other boiler				Unit sensor
94	Return sensor (RG)		NIBE		Included in FIGHTER 1330
96	Hot water heater	ES/EKS	NIBE		
98	Oil boiler				
99	Immersion heater / Electric boiler	ELK213/ELK-15/EP-26/EP-42	NIBE		Contactor controlled from FIGHTER 1330
101	Supply air battery				
104	Expansion card 11	EXP 11, POOL	NIBE	067 042	Accessories, FIGHTER 1330
109	Circulation pump, boiler				
116	Remote heat exchanger				
117	Accumulator with water heater and solar coil	VPAS 300/450	NIBE		
118	Solar panels				
120 ***	Neutralization vessel	UKV 210/300/500	NIBE		

* Dotted safety valve – must be used in connection with immersion heater.

** selected depending on connected compressor power for hot water charging.

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