

M10355 - Several FIGHTER 2020/2010/2005s together with SMO 10, electric boiler and water heater (floating condensing)

Application

Replacing existing air/water heat pump or supplementing electric boiler.

Function

SMO 10 controls up to nine FIGHTER 2020/2010/2005s (of which max one for hot water), electric boiler, circulation pumps, shunt etc. FIGHTER 2020/2010/2005 works with floating condensing against the heating system and prioritises hot water charging via the three way valve (19).

FIGHTER 2020/2010/2005 VP1 heats the hot water.

If FIGHTER 2020/2010/2005 does not manage the heating demand, additional heat from the electric boiler is engaged.

When additional heat is engaged, hot water is heated using the immersion heater in the hot water heater.

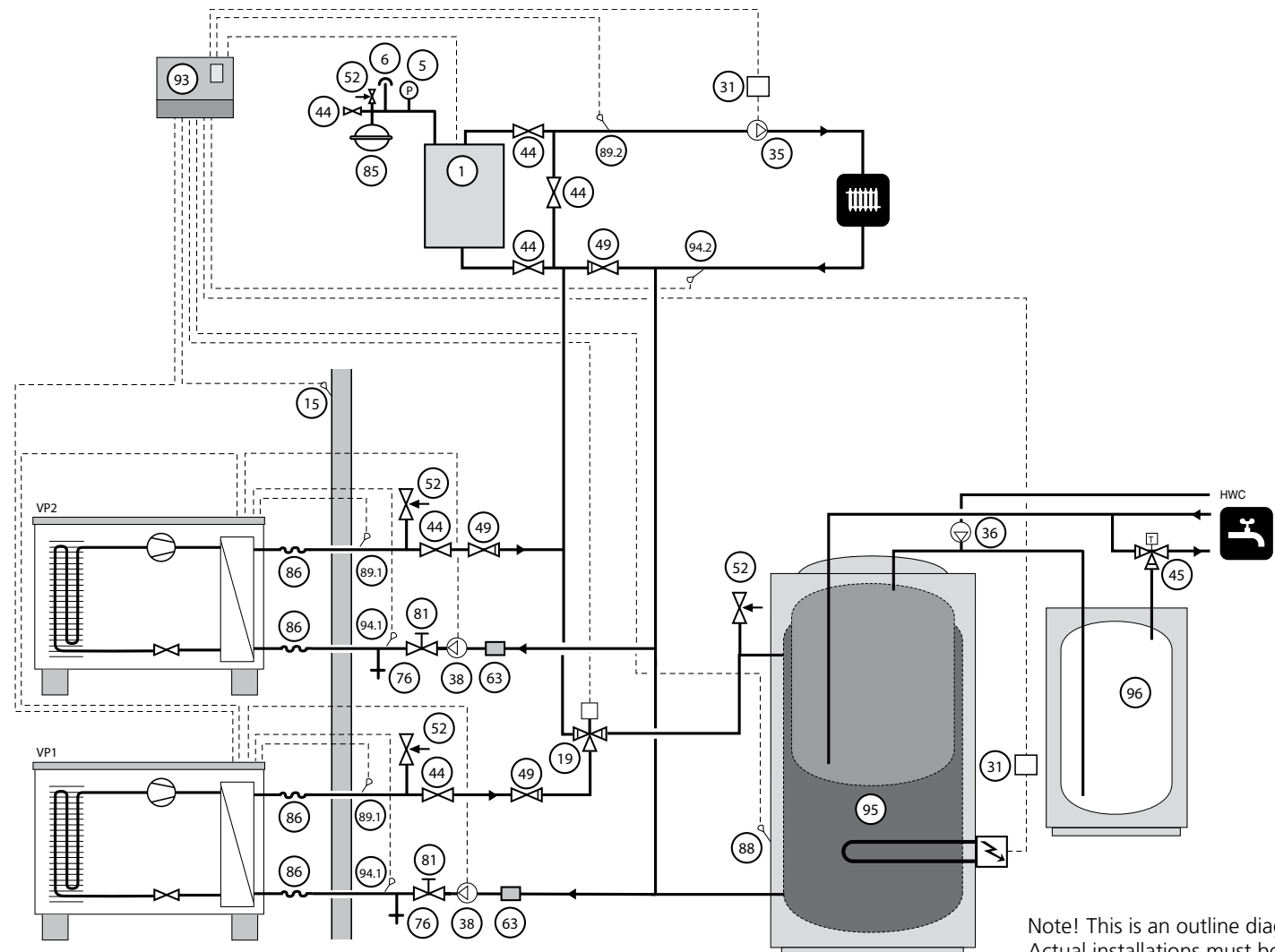
FIGHTER 2010

The fan and compressor work in stage 1 or stage 2 depending on the outdoor air temperature and the heating requirement.

FIGHTER 2020/2005

The fan works in stage 1 or stage 2 depending on the outdoor air temperature and the heating requirement.

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



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

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List of Components

Pos	Name	Specification	Manufacturer	Part No.	Remarks
1	Electric boiler				
5	Pressure gauge				
6	Venting				
15	Outside temperature sensor		NIBE		Included in SMO 10
19*	Shuttle valve	VST 11	NIBE	089152	VST 11 max 15 kW charge power
19*	Shuttle valve	VST 20	NIBE	089388	VST 20 max 40 kW charge power
31	Auxiliary relay/Contactor	HR 10	NIBE	089423	
35	Circulation pump				
36	HWC pump				Hot water circulation
38	Charge pump, hot water				
44	Shut-off valve				
45	Mixer valve				
49	Non-return valve				
52	Safety valve				
63	Particle filter		NIBE		Included in FIGHTER 2020/2010/2005
76	Draining, heating system				
81	Control valve				
85	Expansion vessel				With req. safety equipment
86	Flexible hoses		NIBE		Included in FIGHTER 2020/2010/2005
88	Hot water sensor		NIBE		Included in SMO 10
89.1	Flow line sensor	For FIGHTER 2020/2010/2005	NIBE		Included in FIGHTER 2020/2010/2005
89.2	Flow line sensor	For the radiator system	NIBE		Included in SMO 10
93	SMO 10		NIBE	089259	
94.1	Return sensor	For FIGHTER 2020/2010/2005	NIBE		Included in FIGHTER 2020/2010/2005
94.2	Return sensor	For the radiator system	NIBE		Included in SMO 10
95	Water heater with accumulator	e.g. VPA	NIBE		
96	Water heater		NIBE		