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Switching states

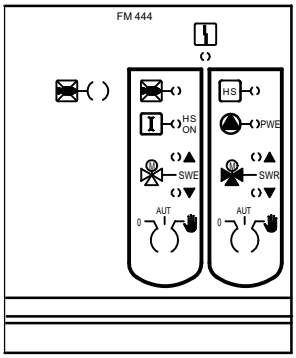
Servomotor Heat source

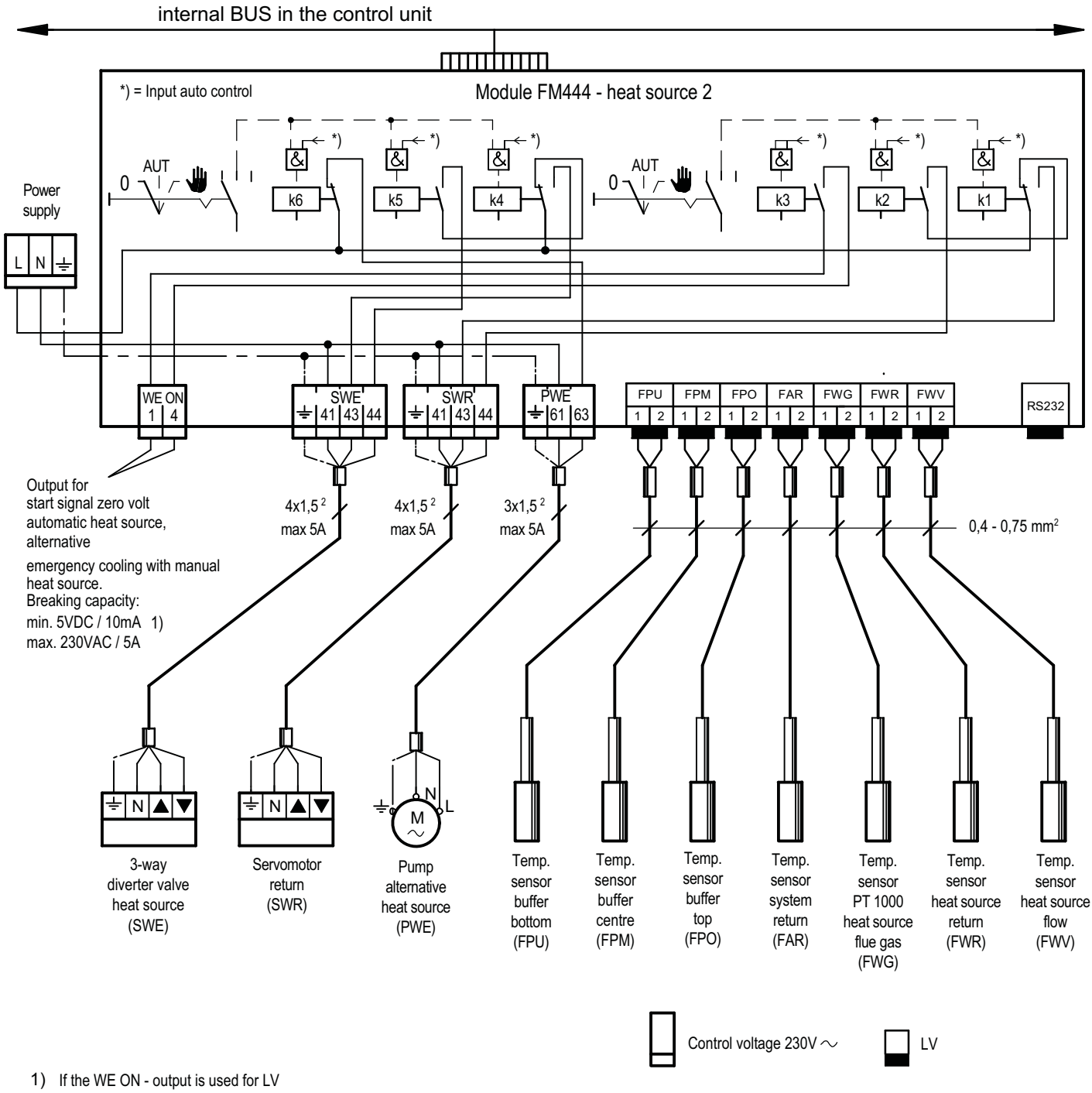
Switch position	(WE ON) k3	(SWE) k5	(SWE) k4
0			
AUT	Control mode	Control mode	Control mode
✋			

Servomotor return

Switch position	(PWE) k6	(SWR) k1	(SWR) k2
0			
AUT	Control mode	Control mode	Boiler mode
✋			

Module - Front view





1) If the WE ON - output is used for LV no 230V must initially be switched with this output.

Always observe the applicable electrical safety standards as well as all local regulations.

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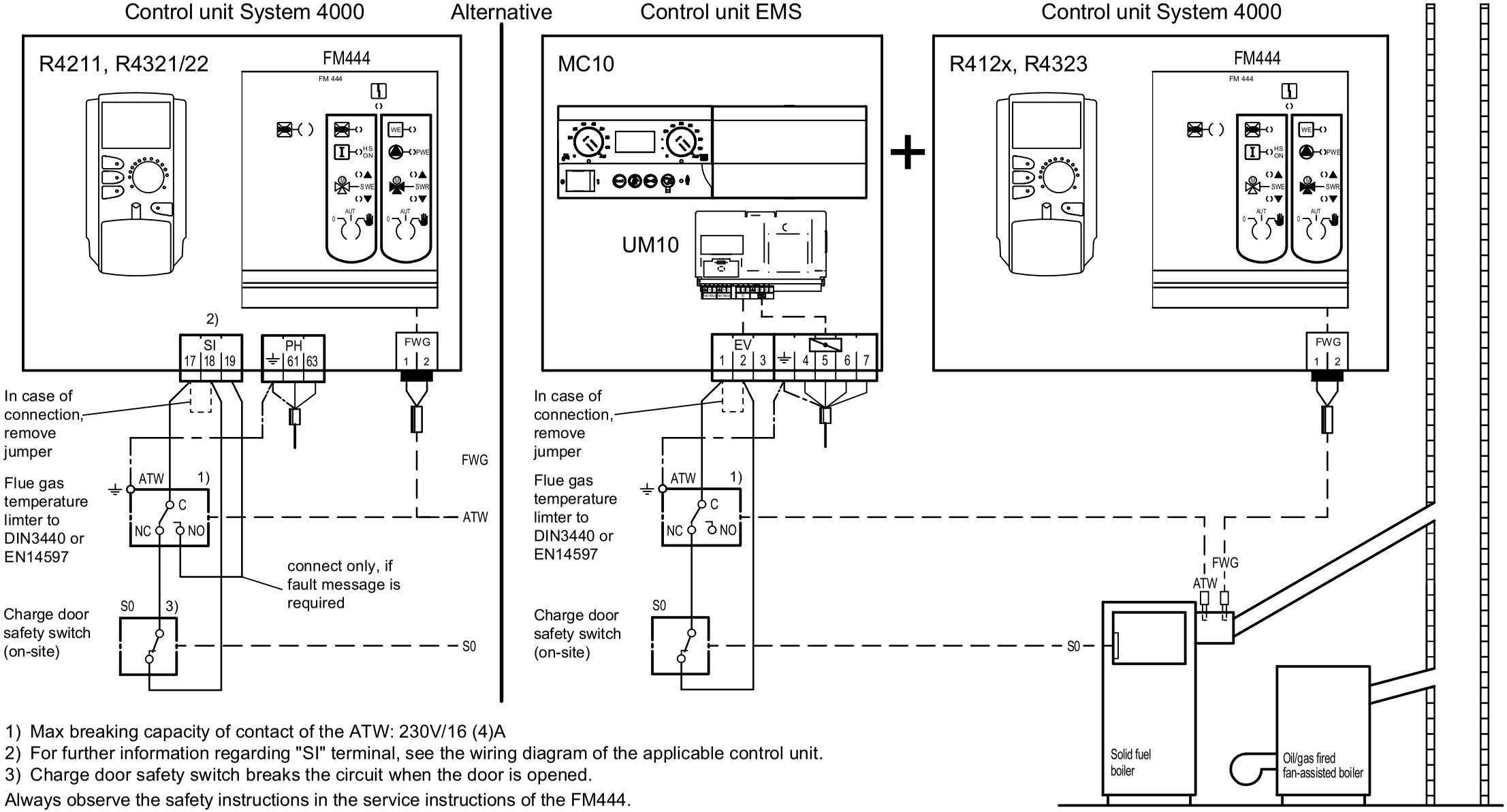
Control unit System 4000 | Alternative | Control unit EMS | Control unit System 4000



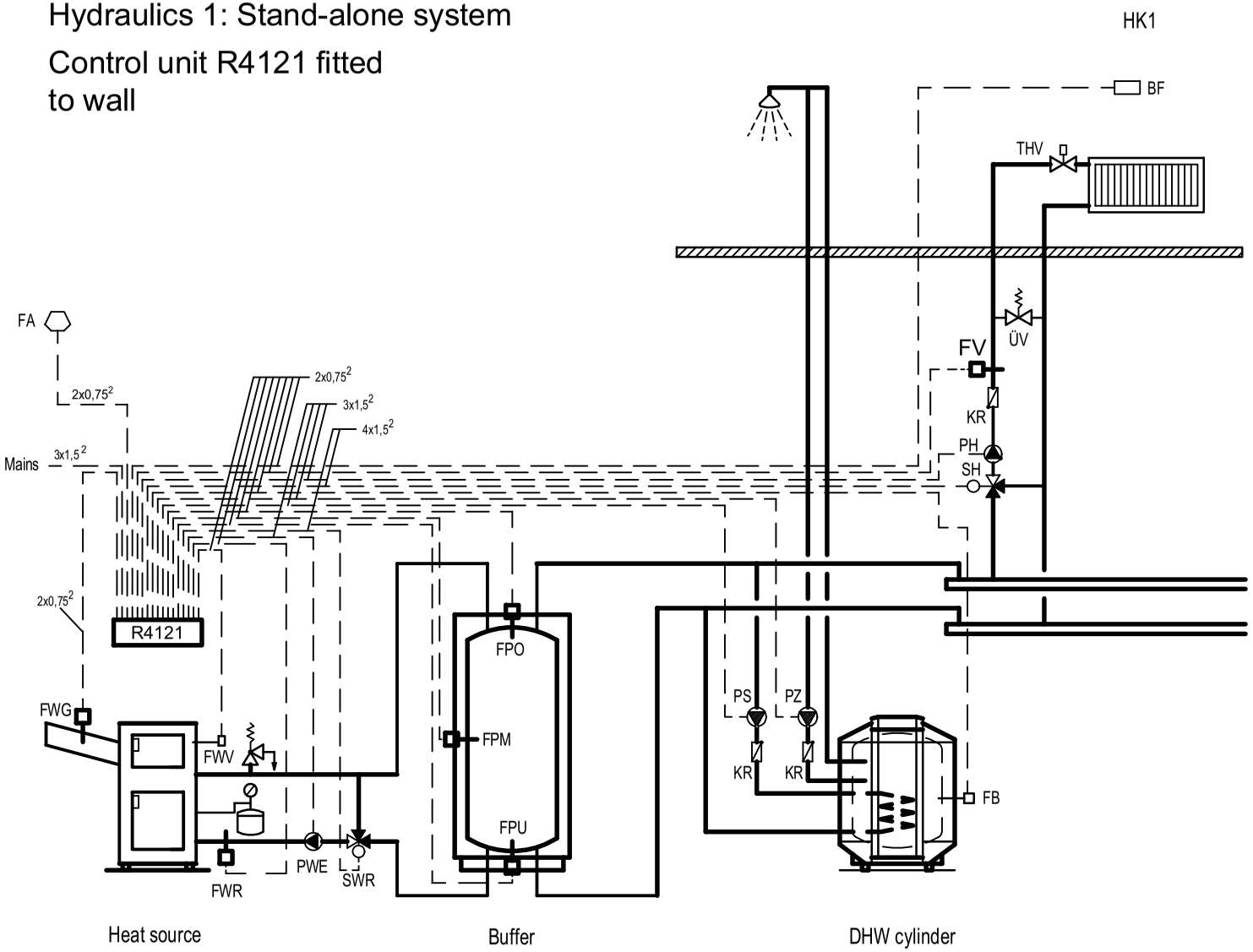
1) Max breaking capacity of contact of the ATW: 230V/16 (4)A
2) For further information regarding "SI" terminal, see the wiring diagram of the applicable control unit.
3) Charge door safety switch breaks the circuit when the door is opened.

Always observe the safety instructions in the service instructions of the FM444.
Observe applicable safety standards and all local regulations.

ATW flue gas temperature limiter opens when the selected temperature | S0 charge door safety switch is exceeded | FWG sensor heat source flue gas

Hydraulics 1: Stand-alone system

Control unit R4121 fitted to wall



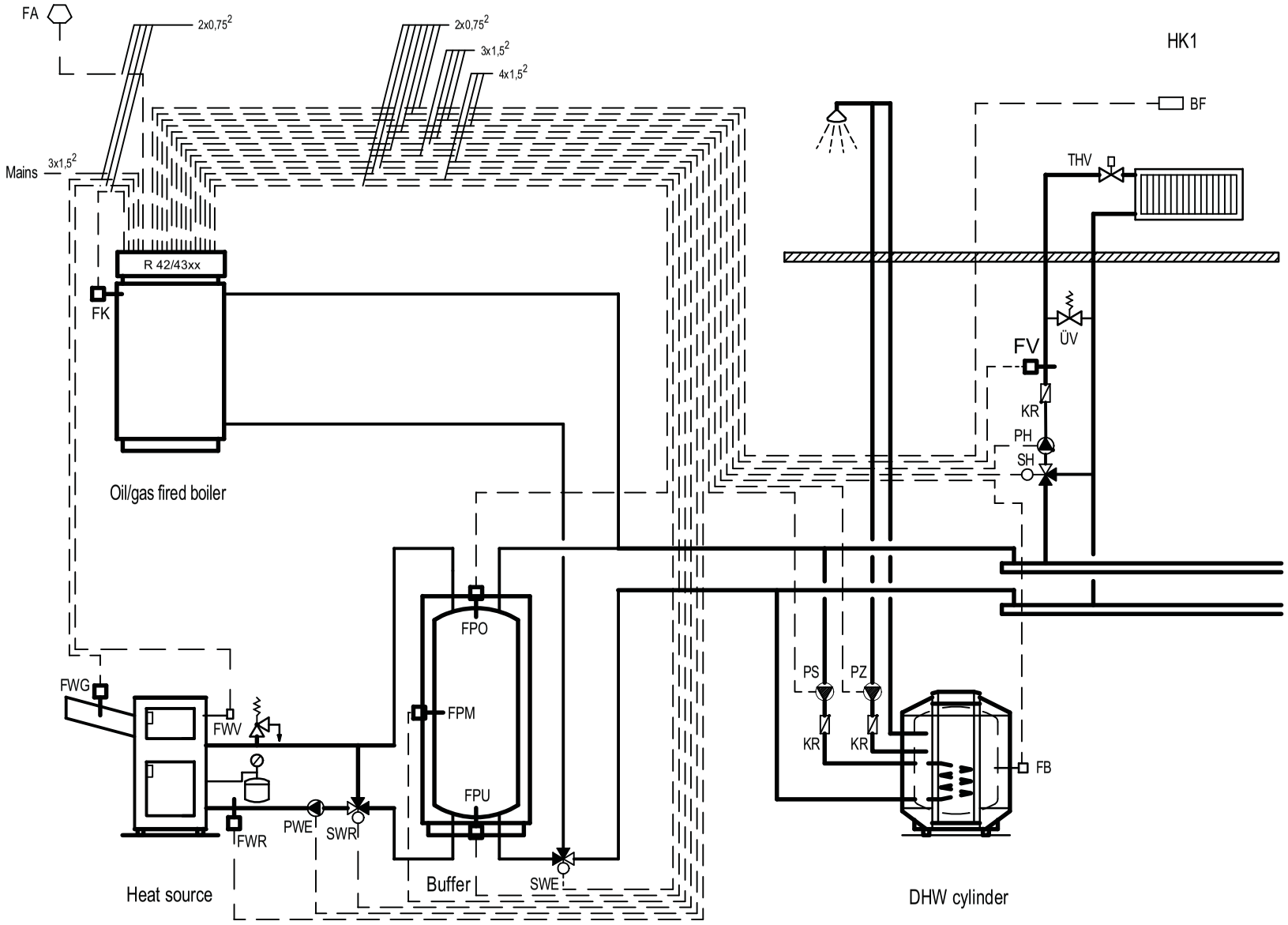
Legend – hydraulic components

HK	heating circuit
KR	check valve
PH	circulation pump, heating circuit
PS	cylinder primary pump
PWE	pump, heat source
PZ	DHW circulation pump
SH	servomotor, heating circuit
SWR	servo motor, heat source, return
THV	thermostatic radiator valve
ÜV	overflow valve

Legend – sensor

BF	remote control MEC2 or BFU
FA	outside temperature sensor
FB	DHW temperature sensor
FPM	buffer cylinder sensor, centre
FPO	buffer cylinder sensor, top
FPU	buffer cylinder sensor, bottom
FV	flow temperature sensor
FWG	sensor, heat source flue gas (in the flue)
FWR	sensor, heat source return
FWV	sensor, heat source flow

Hydraulics 2: Buffer alternative mode



Legend – hydraulic components

BR	burner
HK	heating circuit
KR	check valve
PH	circulation pump, heating circuit
PS	cylinder primary pump
PWE	heat source pump
PZ	DHW circulation pump
SH	servomotor, heating circuit
SWE	servomotor, heat source
SWR	servomotor, heat source return
THV	thermostatic radiator valve
ÜV	overflow valve

Legend – sensor

BF	remote control MEC2 or BFU
FA	outside temperature sensor
FB	DHW temperature sensor
FK	boiler water temperature sensor
FPM	buffer cylinder sensor, centre
FPO	buffer cylinder sensor, top
FPU	buffer cyl inder sensor, bottom
FV	flow temperature sensor
FWG	sensor, heat source flue gas (in the flue)
FWR	sensor, heat source return
FWV	sensor, heat source flow

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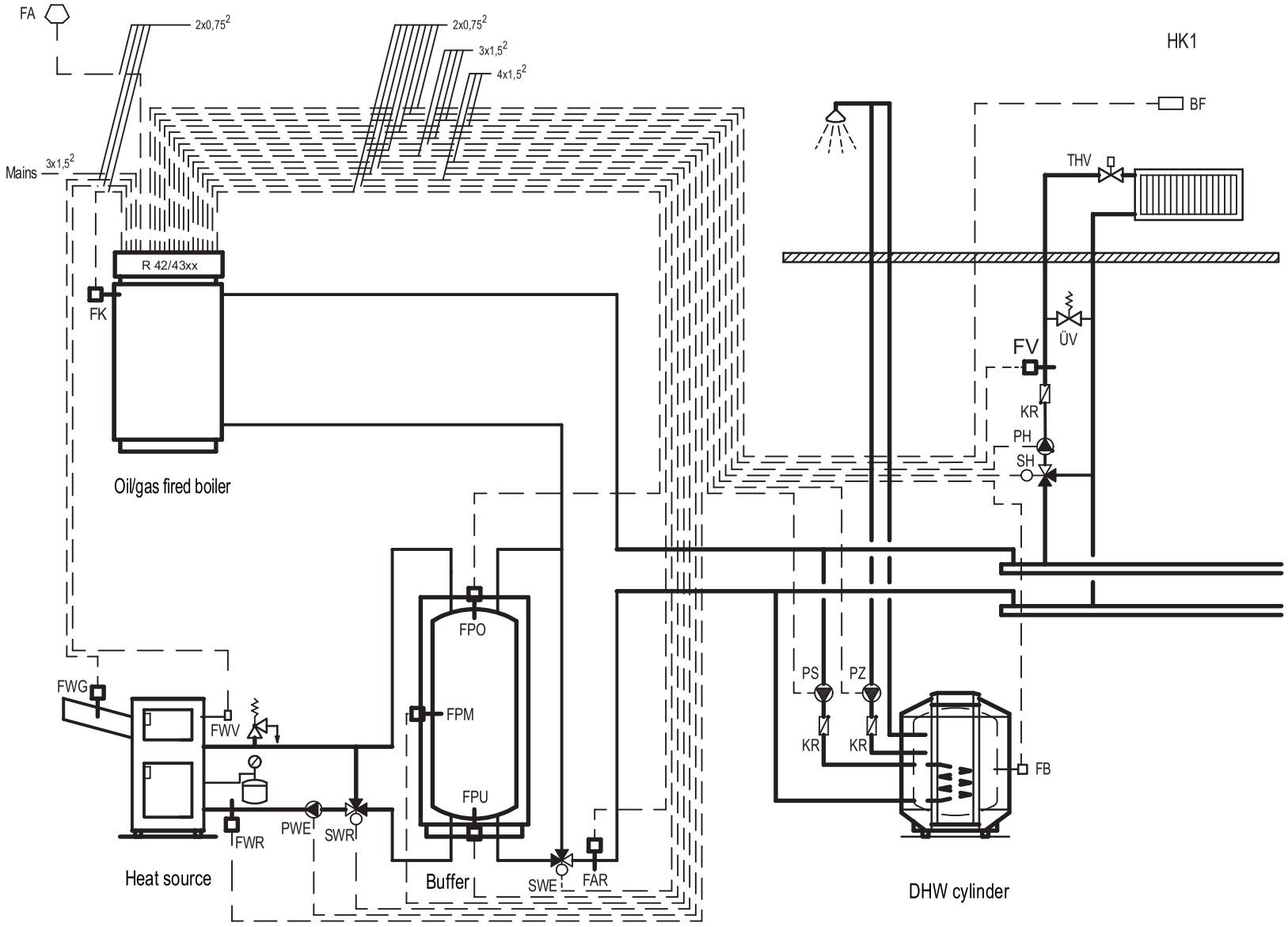
Hydraulics 3: Buffer bypass circuit



Legend – hydraulic components

BR	burner
HK	heating circuit
KR	check valve
PH	circulation pump, heating circuit
PK	boiler circuit pump
PS	cylinder primary pump
PWE	heat source pump
PZ	DHW circulation pump
SH	servomotor, heating circuit
SWE	servomotor, heat source
SWR	servomotor, heat source return
THV	thermostatic radiator valve
ÜV	overflow valve

Legend – sensor

BF	remote control MEC2 or BFU
FA	outside temperature sensor
FAR	sensor, system return
FB	DHW temperature sensor
FK	boiler water temperature sensor
FPM	sensor, buffer cylinder centre
FPO	sensor, buffer cylinder, top
FPU	sensor, b uffer cylinder, bottom
FV	flow temperature sensor
FWG	sensor, heat source flue gas (in the flue)
FWR	sensor, heat source return
FWV	sensor, heat source flow