

Principles of Operation

- OptiMe
- OptiMe with Fresh Milk option

DRAFT



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1. Basics

The water circuit drawings in this document shows you through which components the fresh water is transported from the inlet to the final drink

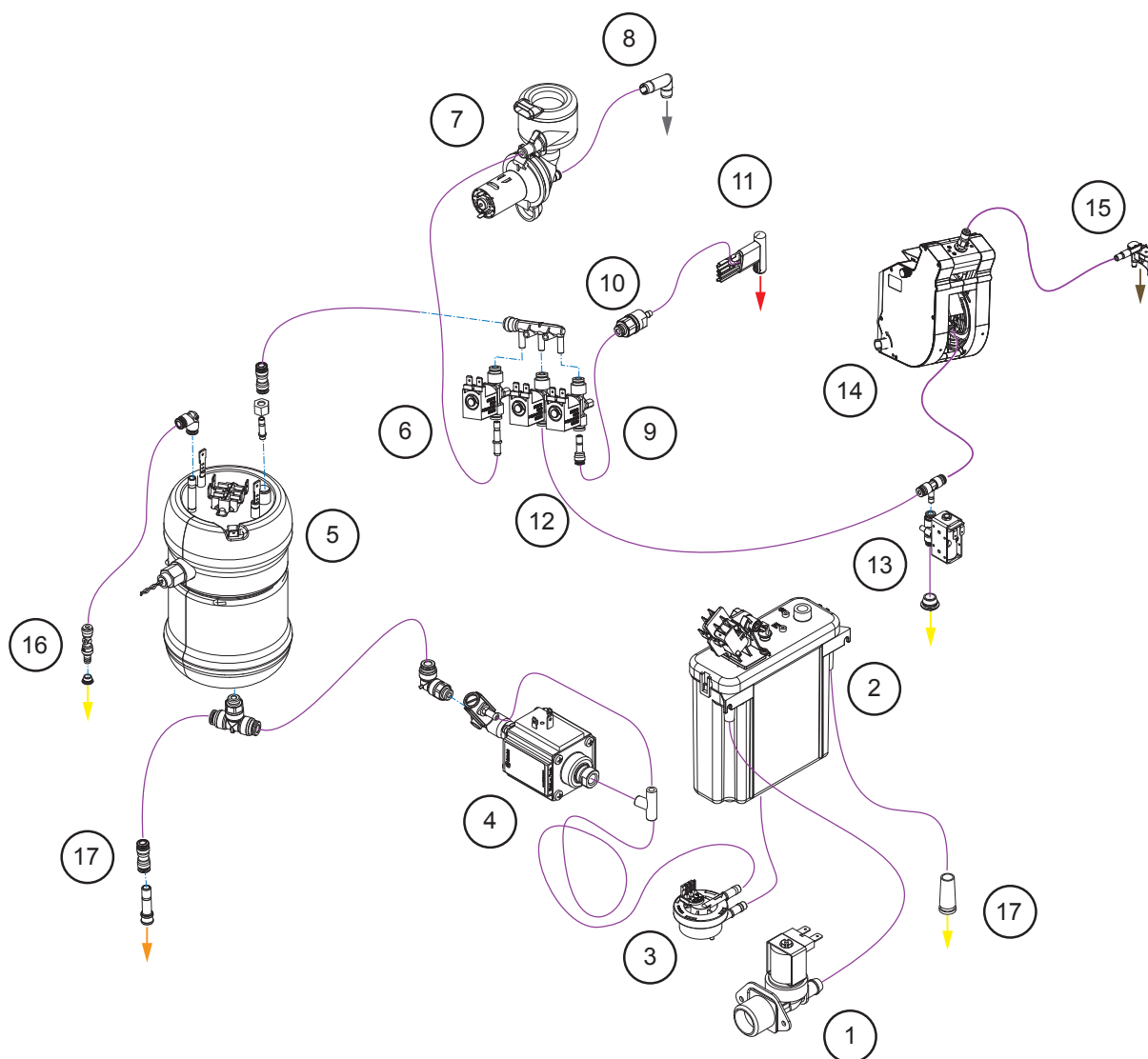
2D

In this drawing the components are recognizable.
Attention; they are not displayed in the exact size.

3D

In this drawing the components are displayed as a schematic component.

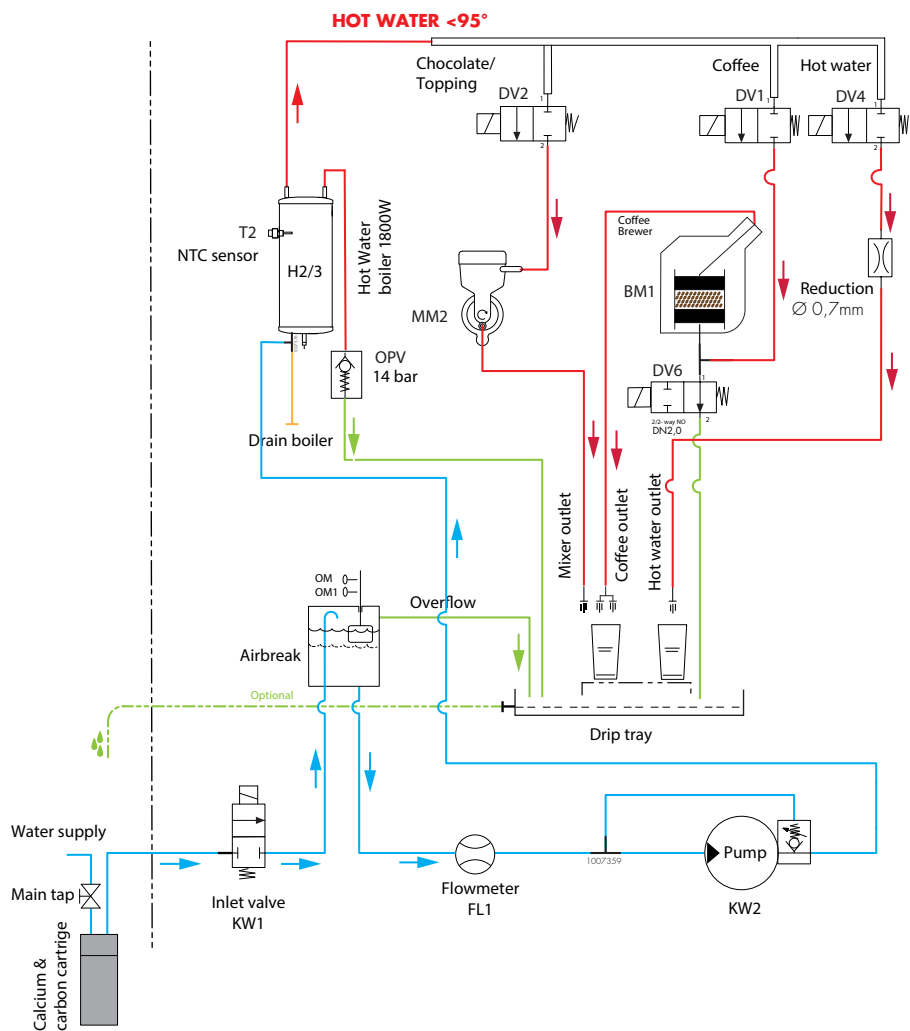
2. Water circuit coffee system 3D



Item		Description
1.	KW1	Inlet valve
2.		Air break
3.	FL1	Flow meter
4.	KW2	Pump
5.	H2-3	Pressure boiler
6.	DV2	Mixer valve
7.	MM2	Mixer system
8.		Drink outlet
9.	DV4	Hot water valve

Item		Description
10.		Reduction hot water 0,7mm
11.		Hot water outlet
12.	DV1	Brewer valve
13.	DV6	Drain valve (NO)
14.	BM	Espresso group (reversed)
15.		Coffee outlet
16.		Pressure relief valve 14 bar
17.		Boiler drain
18.		Overflow air break

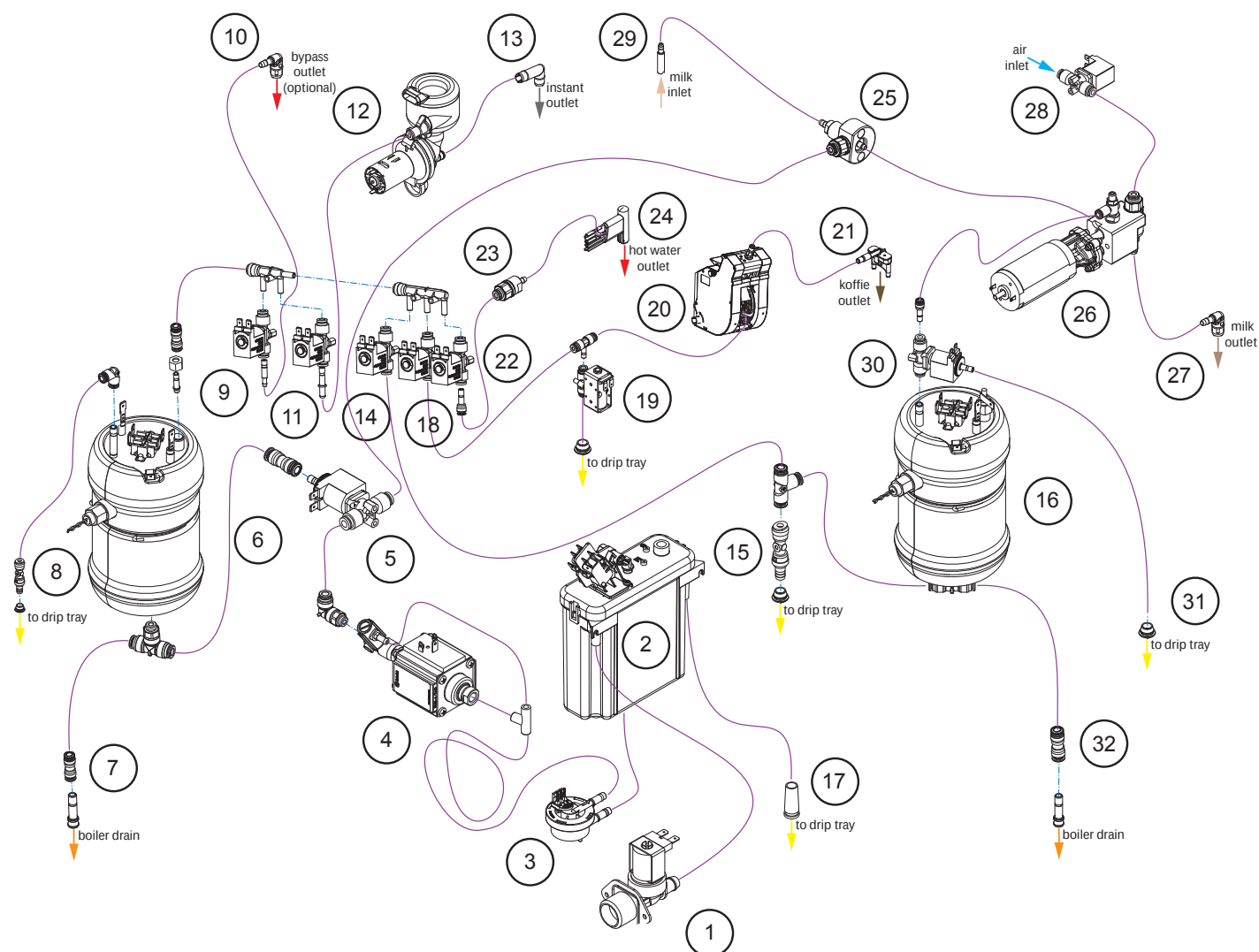
3. Water circuit coffee system 2D



Code	Description
WF	Water filter
KW1	Inlet valve
	Air break
FL1	Flow meter
KW2	Pump
H2-3	Pressure boiler
T2	NTC sensor
DV1	Brewer valve

Code	Description
DV2	Mixer valve
DV4	Hot water valve
	Reduction hot water 0,7mm
DV6	Brewer drain valve 3/2 way (N.O.)
OPV	Pressure relief valve 14 bar
BM1	Espresso group
MM2	Mixer system

4. Water circuit coffee + Fresh milk system 3D



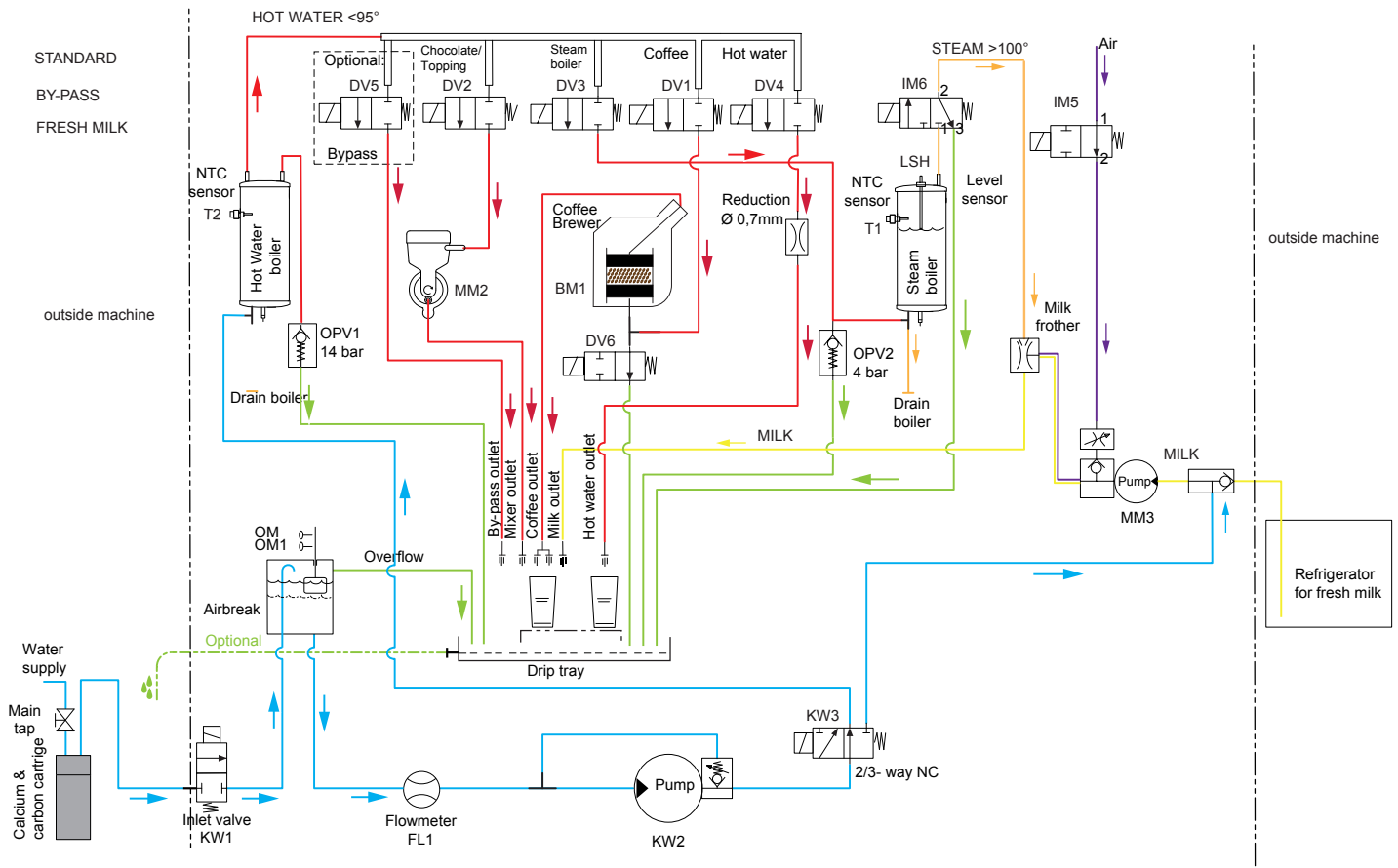
Item		Description
1.	KW1	Inlet valve
2.		Air break
3.	FL1	Flow meter
4.	KW2	Pump
5.	KW3	Milk system flush valve 3 way
6.	H2-3	Hot water boiler
7.		Boiler drain

Item		Description
8.	OPV1	Pressure relief valve 14 bar
9.	DV4	Hot water valve
10.		Hot water outlet
11.	DV2	Mixer valve
12.	MM2	Mixer system
13.		Drink outlet
14.	DV3	Steam boiler inlet valve

Item		Description
15.	OPV2	Pressure relief valve 4 bar
16.	H1	Steam boiler
17.		Overflow air break
18.	DV1	Brewer valve
19.	DV6	Brewer drain valve (NO)
20.	BM	Espresso group (reversed)
21.		Coffee outlet
22.	DV4	Hot water valve
23.		Reduction hot water 0,7mm

Item		Description
24.		Hot water outlet
25.		Fresh milk inlet /flush
26.	MM3	Milk pump
27.		Fresh milk outlet
28.	IM5	Air inlet valve
29.		Cold milk inlet
30.		Steam valve 3 way
31.		Drain steam valve relief
32.		Steam boiler drain

5. Water circuit coffee + Fresh milk system 2D



Code	Description
WF	Water filter
KW1	Inlet valve
	Air break
FL1	Flow meter
KW2	Pump
KW3	Milk system flush valve 3 way
H1	Steam boiler
H2-3	Hot water boiler
T1	NTC sensor steam boiler
T2	NTC sensor hotwater boiler
OPV1	Pressure relief valve 14 bar
OPV2	Pressure relief valve 4 bar

Code	Description
DV1	Brewer valve
DV2	Mixer valve
DV3	Steam boiler inlet valve
DV4	Hot water valve
	Reduction hot water 0,7mm
DV5	Bypass valve (optional)
DV6	Brewer drain valve 3/2 way (N.O.)
IM5	Air inlet valve
IM6	Steam valve 3 way
BM1	Espresso group
MM2	Mixer system
MM3	Milk pump