Dalsia fleXY

District heating substation for wall mounting

Dalsia fleXY is a family of wall-mounted units with application in district heating. They use weather compensation electronical controller and could be connected to various SCADA systems.

Dalsia fleXY 100 could be used with heat flow equal or up to 2m^3/h and is provided with integrated pump. Options with 50 kW DHW heat exchanger or only connections for DHW tank are available.

Dalsia fleXY 200 could be used with heat flow equal or up to 4m^3/h and is offered without a pump and expansion vessel. Options with 50 kW DHW heat exchanger or only connections for DHW tank are available.

Options also include connection valves, balancing group, recirculation line, etc. For more information on different configurations see the ordering table.

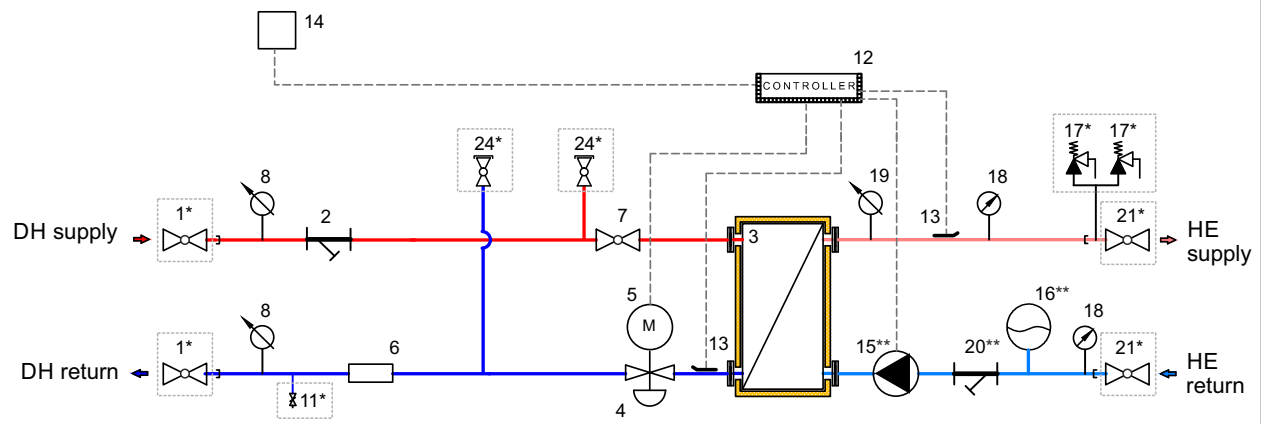
Features and benefits:

- High efficiency heat exchanger
- Low hydraulic losses – 1" primary and heating lines
- Small reaction time for DHW
- Up and down connections
- Fully insulated according to DS452
- Pressure balanced
- fleXY - flexible configurations

Dalsia Brunata

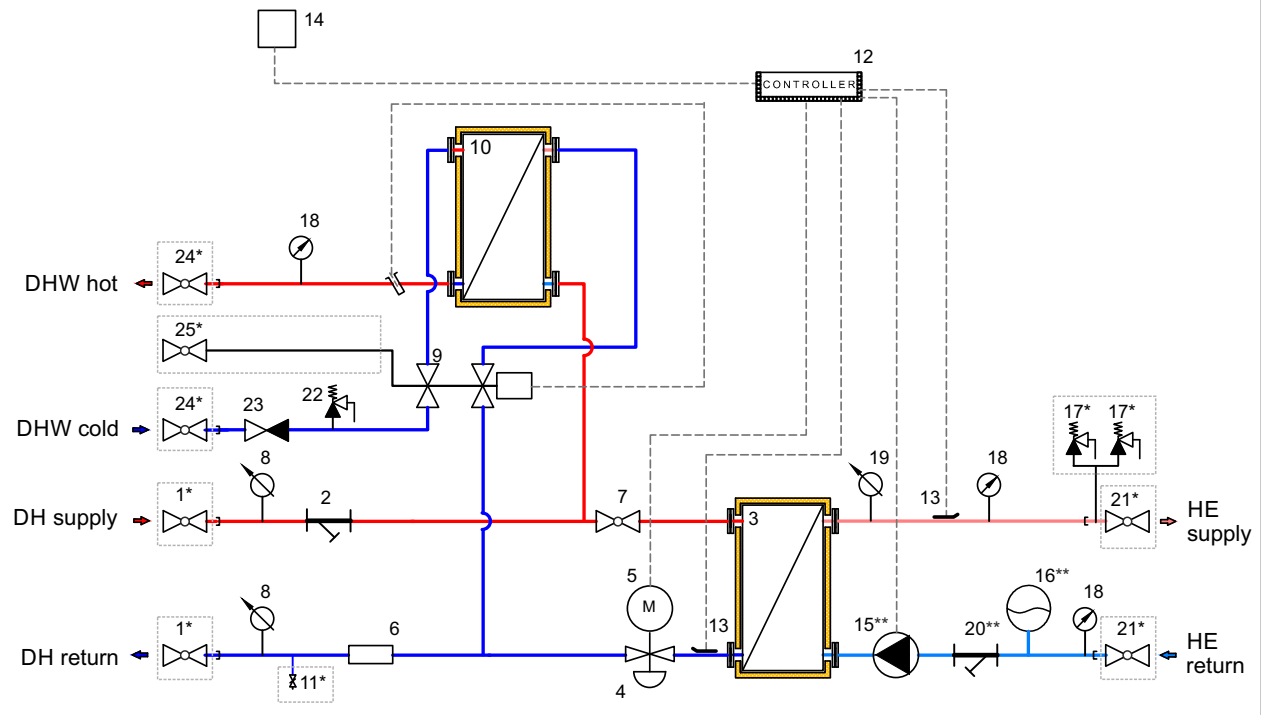
Dalsia fleXY – easy and convenient

Sample PI-diagram (heating)



1*	Shut-off valve primary	8	Manometer primary	17*	Safety valves 3,5 bar set
2	Stainer primary	11*	Drainage valve	18	Thermometer secondary
3	Heat exchanger for heating	12	Controller	19	Manometer secondary
4	Control valve	13	Temperature sensor	20**	Stainer secondary
5	Aktuator	14	Outside temp. sensor	21*	Shut-off valves secondary
6	Heat meter pass pipe with sensors	15**	Circulation pump	24*	Shut-off valve DHW
7	Shut-off valve summer	16**	Expansion vessel		

Sample PI-diagram (heating and DHW)



1*	Shut-off valve primary	9	Thermostatic valve DHW	17*	Safety valves 3,5 bar set
2	Stainer primary	10	Heat exchanger for DHW	18	Thermometer secondary
3	Heat exchanger for heating	11*	Drainage valve	19	Manometer secondary
4	Control valve	12	Controller	20**	Stainer secondary
5	Aktuator	13	Temperature sensor	21*	Shut-off valves secondary
6	Heat meter pass pipe with sensors	14	Outside temp. sensor	22	Safety valve DHW
7	Shut-off valve summer	15**	Circulation pump	23	Non-return valve
8	Manometer primary	16**	Expansion vessel	24*	Shut-off valve DHW
				25*	Shut-off valve circulation

* The specified components are optional.

** The specified components are mounted outside the unit when the capacity is below 50 kW.

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Type designation of Dalsia fleXY district heating substations (heating)

Plate HEX type	Heating temp. primary °C	Heating temp. secondary °C	Heating pipes connections inch	Heating capacity kW	DHS primary pressure loss kPa	Flow primary m3/h	DHS secondary pressure loss kPa	Flow secondary m3/h	Pump Heating type	Expansion vessel volume l
IC25TH30	90/45	40/70	1"	50	39	0.97	15	1.44	Alpha2 L 15-60	8
IC25TH30	80/43	40/60	1"	35	40	0.82	14	1.51	Alpha2 L 15-60	8
IC25TH30	60/30	25/55	1"	18	21	0.52	3	0.52	Alpha2 L 15-60	8
IC25TH80	90/45	40/70	1"	100	54	1.92	17	2.87	-	-
IC25TH80	80/43	40/60	1"	80	46	1.86	23	3.45	-	-
IC25TH80	60/30	25/55	1"	58	39	1.67	9	1.67	-	-

* Subject to changes.

Type designation of Dalsia fleXY district heating substations (heating and DHW)

Plate HEX type	Heating temp. primary °C	Heating temp. secondary °C	Heating capacity kW	Heating flow primary m3/h	Plate HEX type	DHW pipes connections inch	DHW capacity kW	DHW flow secondary m3/h	DHW flow primary m3/h	DHS primary pressure loss Summer kPa	Heating + DHW flow primary m3/h	DHS primary pressure loss Winter kPa
IC25TH30	90/45	40/70	50	0.97	XB06H-130	3/4"	48	1.03	1.18	39	2.15	50
IC25TH30	80/43	40/60	35	0.82	XB06H-130	3/4"	48	1.03	1.18	39	2.00	41
IC25TH30	60/30	25/55	18	0.52	XB06H-130	3/4"	48	1.03	1.18	39	1.70	39
IC25TH80	90/45	40/70	100	1.92	XB06H-130	3/4"	48	1.03	1.18	39	3.10	57
IC25TH80	80/43	40/60	80	1.86	XB06H-130	3/4"	48	1.03	1.18	39	3.04	51
IC25TH80	60/30	25/55	58	1.67	XB06H-130	3/4"	48	1.03	1.18	39	2.85	49

* Subject to changes.

Dalsia fleXY

Type ☐☐☐ - ☐☐☐ - ☐☐☐

Heat exchanger for heating with 30 plates	1								
Heat exchanger for heating with 80 plates	2								
no DHW		0							
DHW connections		1							
48 kW DHW		2							
no pump			0						
Alpha 2L 15/60 pump*			1						
no expansion vessel				0					
8 L expansion vessel *				8					
no recirculation connection					0				
recirculation connection 3/4"					1				
no heat meter						0			
heat meter						1			
no valves							0		
valves set included							6		
integrated filter 3/4" *								0	
secondary filter 1" outside								3	
secondary filter 1 1/4" outside								5	
no safety valves									0
safety valves 1/2" set									2

* Only possible for substations with IC25TH30 HEX

For example, Dalsia fleXY 210-010-652 includes:
80 plates heat exchanger for heating,
DHW connection,
no pump,
no expansion vessel,
recirculation connection 3/4",
no heat meter,
valves set included,
secondary filter 1 1/4",
safety valves 1/2" set.

Technical parameters

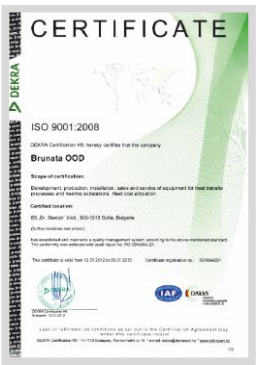
Parameter	Primary side	Secondary side
Nominal pressure	Pn 16	Pn 10
Max. supply temperature	120 °C	100 °C
DHW design temperature	60/25 °C	10/50 °C

Dimensions in mm L750 x B300 x H950
Electricity supply 230V AC

Dalsia fleXY – easy and convenient

Dalsia Brunata district heating solutions have served international markets since 1993 with a continuous improvement in design and production capacity. What started as a basic production and is now a fully fledged and modern substation factory with the capacity of making thousands substations per year.

Dalsia Brunata production is ISO 14001 and 9001 certified to ensure top quality of all our products and service. Dalsia Brunata is also certified in accordance with PED 97/23/EC for operation with pressure equipment.



Certificate ISO 9001:2008
Quality management

Approval of quality system
acc. to PED 97/23/EC

Certificate ISO 18001 OHSAS
Occupational health
and safety

Certificate ISO 14001
Environmental
management

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