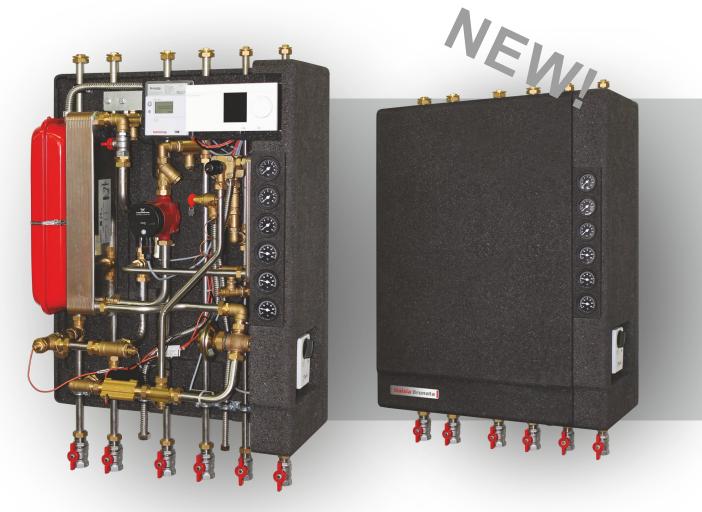
Dalsia fleXY

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.

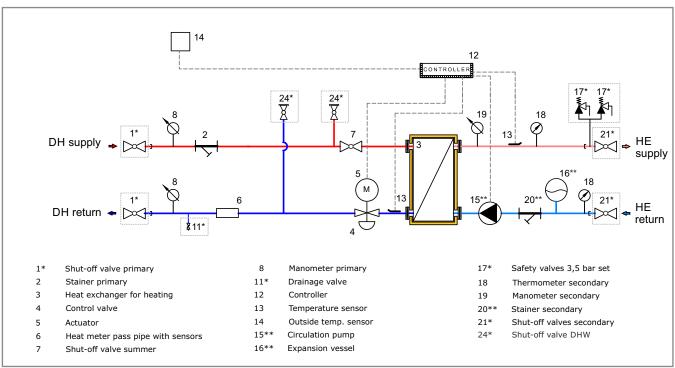
Features and benefits:

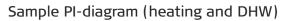
- High efficiency heat exchanger
- Low hydraulic losses 1" primary and heating lines
- Small reaction time for DHW
- Up and down connections
- Fully insulated according to DS452
- Pressure balanced
- fleXY flexible configurations

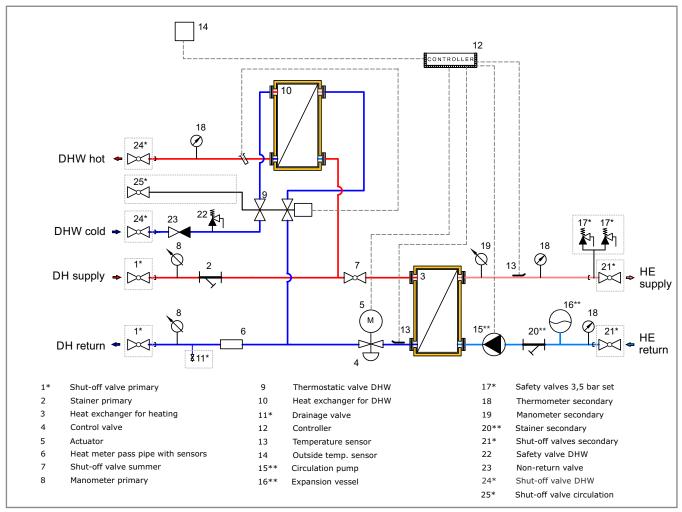
Dalsia Brunata

Dalsia fleXY – easy and convinient

Sample PI-diagram (heating)







* The specified components are optional.

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

Dalsia fleXY – easy and convinient

Plate HEX	Heating temp.	Heating temp. secondary	Heating pipes connections	Heating capacity	DHS primary pressure loss	Flow primary	DHS secondary pressure loss	Flow secondary	Pump Heating	Expansion vessel volume
type	°C	°C	inch	kW	kPa	m3/h	kPa	m3/h	type	I
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	-	-

Type designation of Dalsia fleXY district heating substations (heating)

* Subject to changes.

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

Plate HEX	Heating temp.	Heating temp.	Heating capacity	Heating flow	Plate HEX	DHW pipes	DHW capacity		DHW flow	P	DHW flow	pressure loss
type	°C	secondary °C	kW	primary m3/h	type	connections inch	kW	secondary m3/h	primary m3/h	Summer kPa	primary m3/h	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	Туре				-				-			
Heat exchanger for heating with 30 pla	ates	1										
Heat exchanger for heating with 80 pla	ates	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

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

* Only possible for substations with IC25TH30 HEX

Dalsia fleXY – easy and convinient



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

	104
	ROVAL of QUALITY SYSTEM Pressure Equipment Directive 97/20EC
1.4	quality assurance - reedule H Na CO20-822-QS/10
Name and address of manufacturer	"Brumata Balgarie" OOD - Sole 1618, 65 Sr. Baston RVd. Fisctor, for exerufacturing of substations. Stryama, Industral Zone Ratiovski
Site of auditing	"Brunsta Bulgaria" OOD, Sofa 1818, IN III: Batton blvd. and Factory for manufacturing of subditions. Stytems, Industral Zone Relevan
production is the compar- design, manufacturing, fir "Reat exchan The quality system prov- encioned eccentral serve foculation for essential to	at 131, upon researching and evaluation of the quality of transite fillinger (OD), approximate the used system for all inspection and saming of proximate explormers right substattation $-T \le 200^{-1}$ cm (PM) = 40 ⁺¹ dre assessments of the rest field of the state of the explorements of the second behavior of proximate explormers equations in display assumance of proximate explorement (
production is the compar- design, manufacturing, fin "Reat excelusi The quality system prov- encioned wavefold seru Dagulation for essential in DV, or 87(2022.) The following opproval is:	ry 'linnole Bugand' ODD, approve the used system for all impaction and being of processes approxed. reging substations - T.S.200°C and PN 5.40°' des auszestmin of bies methodused registered with the registeration of Destity instantics of processes equipment (station approx
production is the compar- design, manufacturing, fin Utest exchange The quality system provi enclosed example recu	y 'timote Bugand' (201), approve the used system for all inpaction and table(in) of processes explored reging substitutiens – T ≤ 200°C and (PN ≤ 40° des ausonativiti of Use resolution of protected by the processes of Oracles V7 123 / 15C, included by the epulsements and quality assumance of processes equipment (asserts processes)
protection is the compar- testion, manufacturing, fin "Heat exchant inclosed wavebal may bogulation for essential in 20/, or 6872021. The following approval is- tualit report Na: 0025-022	ry 'Biocho Rugan' (CGL, account the used patient for inspection and instance of printican explorations) implies subleating in the CGL and Phil. Get the accounter of the main/ducked regressrent with the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances of Ducketin IP' / 22 / 15CL, instances by the instances of Ducketin IP' / 22 / 15CL, instances of Ducketin IP' / 22 / 15CL,

Approval of quality system acc. to PED 97/23/EC <section-header><text><text><text><text><text><text><text><text><text><text><text>

and safety

Certificate ISO 18001 OHSAS Occupational health

Certificate ISO 14001 Environmental management

Certificate

BRUNATA OOD BG - 1918 Sofia 65. Biotys Daston Ets Bulgaria

Development, production, installation, sales and service of equipment for heat transfer processes and heating schedulations.

12.08 unti 2016.02.0

B. Company

A TÜVRheir



85 Baxton Blvd. · BG-1618 Sofia Tel. +359 2 9155 701 · Fax +359 2 9155 755 www.dalsiabrunata.com sales@dalsiabrunata.com