



## Midi Compact

District heating substation for multi-family houses (10-50 dwellings)

Midi Compact is a complete, ready-to-install district heating substation for heating and hot water. Midi Compact is available in four sizes and is designed for buildings that have a primary connection to a district heating network. The sizes offered are 75, 100, 150 and 200 kW heating, with matching hot water output.

Alfa Laval has years of experience in district heating technology and has developed Midi Compact with well-planned pipework and with all components easily accessible for inspection and future servicing.

### Comfort

Midi Compact has fully-automatic temperature control for heating and hot water. The outside temperature is used to control heating. The hot water temperature is set and maintained at the desired temperature. The unit has been designed with a two-step connection in order to optimize cooling of the primary return.

### Installation

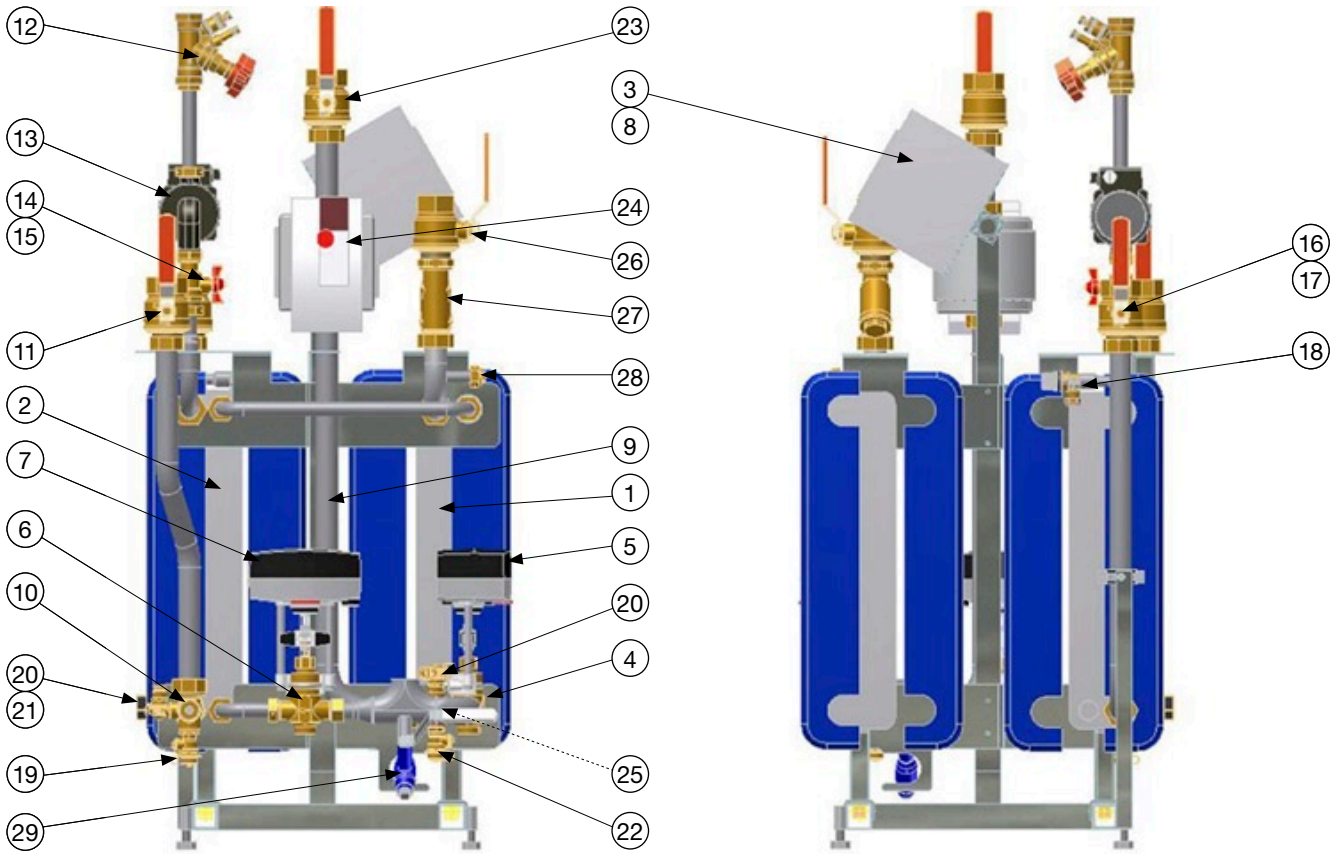
Installation is easy due to well planned pipework and pre-wiring. In addition, there is a pre-programmed controller and plug-and-socket connection, which makes it easy to start the substation without delay. With its small size and light weight, the Midi Compact is easy to install and maintain in both new and renovated buildings.

### Long-term security

All of the plates and pipes in the heat exchanger are made of acid-resistant stainless steel for long life. All components are adjusted together and undergo thorough functional testing in accordance with Alfa Laval's ISO 9001:2008 quality assurance system. All components are easily accessible and can be individually replaced in order to facilitate future servicing.

Midi Compact is CE-marked to certify that the substation conforms to international safety regulations. To maintain the validity of the CE marking, only identical replacement parts may be used.

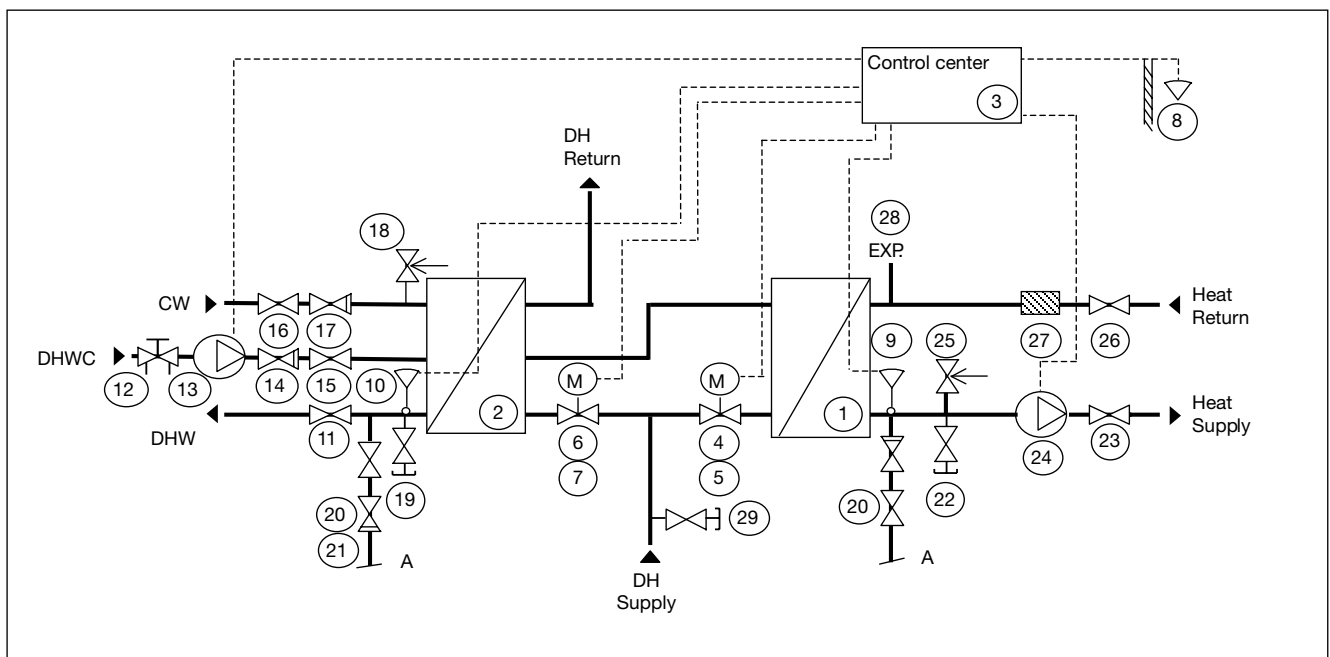




**Components**

- |  |                               |                                    |
|--|-------------------------------|------------------------------------|
| 1. Heat exchanger, heating             | 11. Shut-off valve, DHW       | 21. Hose                           |
| 2. Heat exchanger, DHW                 | 12. Balancing valve, DHWC     | 22. Draining valve, heat supply    |
| 3. Control center*                     | 13. Pump, DHWC                | 23. Shut-off valve, heat supply    |
| 4. Control valve, heating              | 14. Non return valve, DHWC    | 24. Pump heating                   |
| 5. Actuator, heating*                  | 15. Shut-off valve, DHWC      | 25. Safety valve, heating          |
| 6. Control valve, DHW                  | 16. Shut-off valve, CW        | 26. Shut-off valve, heating return |
| 7. Actuator, DHW*                      | 17. Non return valve, CW      | 27. Strainer, heat return          |
| 8. Temperature sensor, outdoor*        | 18. Safety valve, CW          | 28. Connection expansion vessel    |
| 9. Temperature sensor, heating supply* | 19. Draining valve, DH supply | 29. Draining valve, DH-supply      |
| 10. Temperature sensor, DHW supply*    | 20. Topping up                |                                    |

\*Option



### Operating data Midi Compact

	Primary side	Heating	DHW
Design pressure, PS	16 Bar	6 Bar	10 Bar
Design temperature, TS	120°C	100°C	100°C
Relief pressure safety-valve SE	–	3 Bar	9 Bar
Volume, heat exchanger, L	1.81-4.66/1.81-3.2 L	1.9-4.75 L	1.81-3.2 L

### Performance at primary operating pressure 100-600 kPa

Type	Temperature programme (°C)	Capacity (kW)	Primary flow (l/s)	Actual return temp (°C)	Secondary flow (l/s)
<b>Heating circuit</b>					
Midi Compact 75	100-63/60-80	75	0.51	63	0.91
	100-43/40-60	106	0.47	43	1.29
Midi Compact 100	100-63/60-80	114	0.77	63	1.39
	100-43/40-60	151	0.66	43	1.83
Midi Compact 150	100-63/60-80	155	1.04	63	1.89
	100-43/40-60	188	0.82	43	2.27
Midi Compact 200	100-63/60-80	195	1.31	63	2.38
	100-43/40-60	216	0.94	43	2.61
<b>Hot water circuit</b>					
Midi Compact 75	65-22/10-55	110	0.61	22	0.58
	70-22/10-55	131	0.66	20.3	0.7
Midi Compact 100	65-22/10-55	109	0.61	22	0.58
	70-22/10-55	131	0.63	20.3	0.7
Midi Compact 150	65-22/10-55	147	0.82	22	0.78
	70-22/10-55	169	0.81	20	0.9
Midi Compact 200	65-22/10-55	184	1.03	22	0.98
	70-22/10-55	207	0.99	19.8	1.1

### Connections

District heating supply
District heating return

### Weld

DN32
DN32

### Connections

Heating supply
Heating return
Cold water
Hot water
Hot water circulation
Expansion vessel

### Thread

G 1½"
G 1½"
G 1½"
G 1½"
G 1"
G ¾"

### Other information

Electrical data: 230V 50Hz Single phase 227-458W

Sound level: <70 dB(A), 1.6 meters above the floor and 1 meter from the sound source

Dimensions: Width 800 mm x depth 600 mm x height 1300 mm

Weight: 80-110 kg

**How to contact Alfa Laval**

Up-to-date Alfa Laval contact details  
for all countries are always available  
on our website at [www.alfalaval.com](http://www.alfalaval.com)