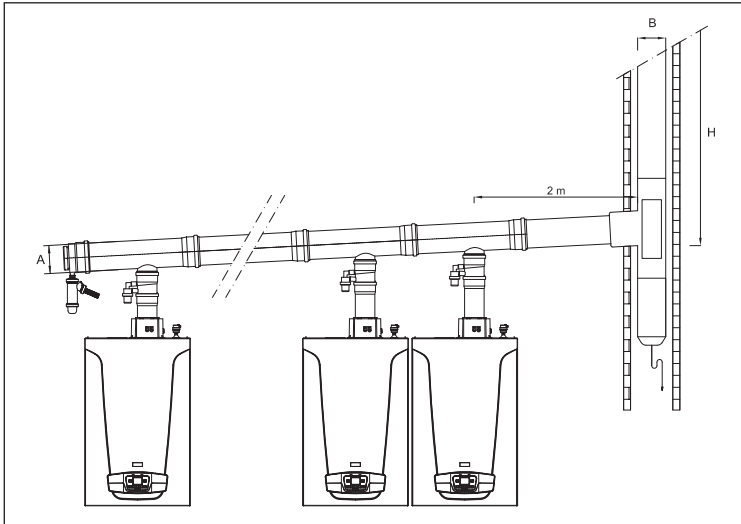







Flue systems - cascade installation

The table shows the diameters of the flue manifold and the flue for various configurations of boilers in cascade and for various heights of flue.



Remarks

- distance of the manifold from the first boiler to the vertical chimney 2 meters;
- shutter kit installed in each boiler in cascade;
- the flue pipes and the connections between the flue manifold of the cascade and the chimney are not supplied by BAXI, also the manifolds for cascade installation with diameter bigger than 200 mm are not supplied by BAXI,
- the calculation has been made assuming a PP "double wall" flue duct.

N° boilers in cascade		1.50	1.60	1.70	1.90	1.110	1.130	1.150
2 	Nominal heat output Total 50°/30° C (kW)	100	120	140	180	220	260	300
	Flue manifold Ø mm (A)	125	125	125	160	160	160	160
	Flue Ø mm (B) - H= 5-20 m	125	125	125	160	160	160	160
3 	Nominal heat output Total 50°/30° C (kW)	150	180	210	270	330	390	450
	Flue manifold Ø mm (A)	125	125	125	160	160	160	160
	Flue Ø mm (B) - H= 5-20 m	125	125	160	160	160	160	160
4 	Nominal heat output Total 50°/30° C (kW)	200	240	280	360	440	520	600
	Flue manifold Ø mm (A)	125	125	160	200	200	200	200
	Flue Ø mm (B) - H= 5-20 m	160	160	160	200	200	200	200
5 	Nominal heat output Total 50°/30° C (kW)	250	300	350	450	550	650	750
	Flue manifold Ø mm (A)	160	160	160	200	200	Flue pipes to be sized after technical evaluation and must meet the requirements of the prevailing installation standards in the country.	
	Flue Ø mm (B) - H= 5-20 m	160	160	200	200	200		
6 	Nominal heat output Total 50°/30° C (kW)	300	360	400	540	660	780	900
	Flue manifold Ø mm (A)	160	160	200	200	200	Flue pipes to be sized after technical evaluation and must meet the requirements of the prevailing installation standards in the country.	
	Flue Ø mm (B) - H= 5-20 m	160	160	200	200	250		

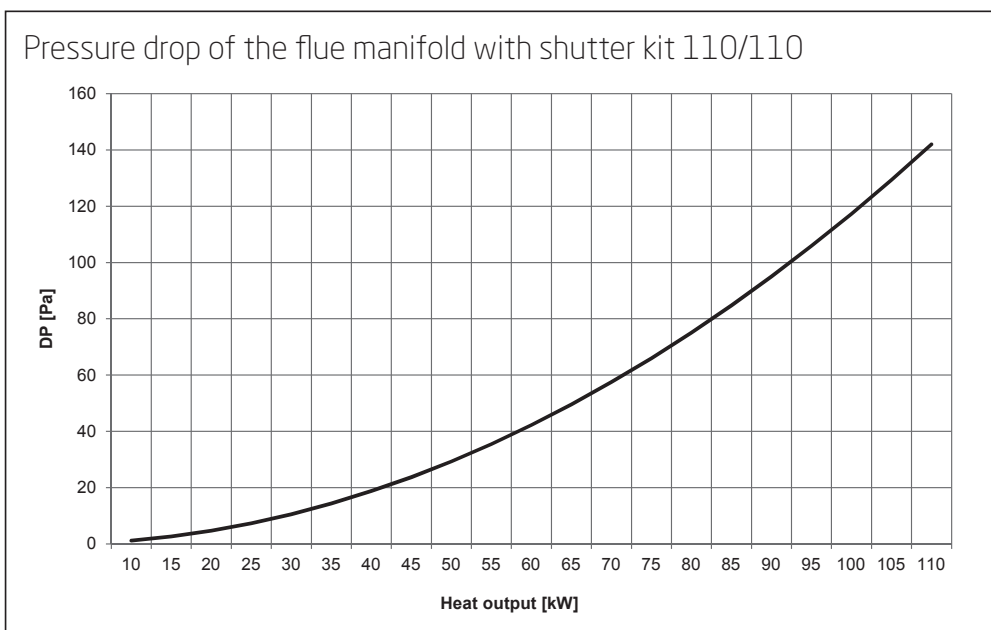
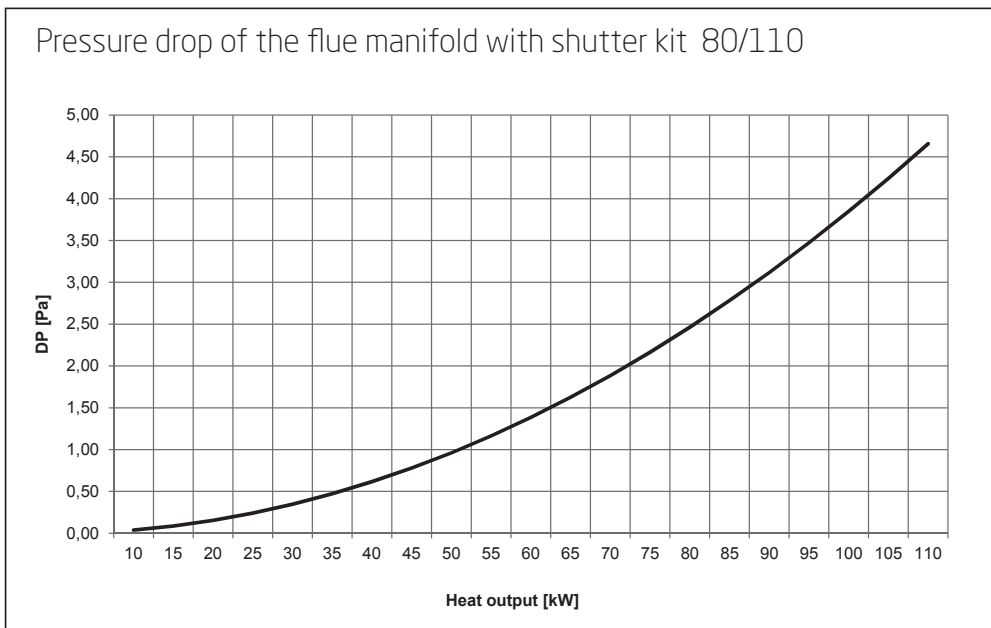
Boilers in cascade can be connected to a sole flue manifold with a shutter kit connection.

The shutter kit connection is equipped with condensing trap and it has the following diameters:

mod. 1.50-1.70 : 80/110 mm;

mod. 1.90-1.110: 110/110 mm.

The graphs show the pressure drop of the flue manifold with shutter kit as a function of the heat output.



Pipes maximum lengths are subjected to technical evaluation and must meet the requirements of the prevailing installation standards in the country.