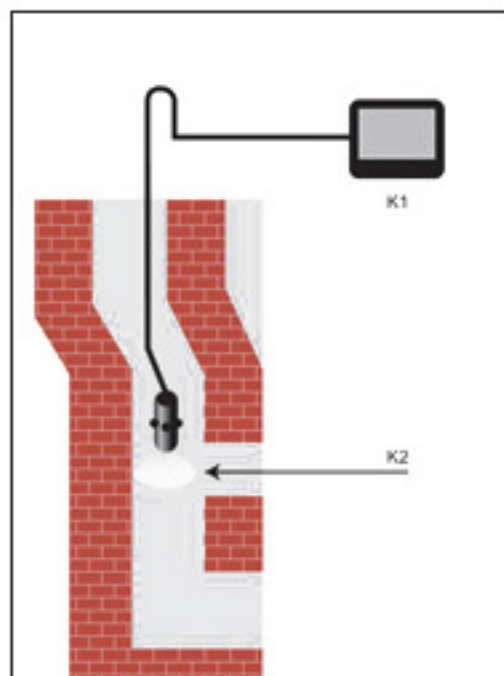


# INSTALLATION OF FURANFLEX® LINER TUBE

The installation of the FuranFlex® liner tube in chimneys is fundamentally different from all other chimney lining procedures. Chimneys can be lined using FuranFlex® within a few hours, instead of the several days using traditional methods. Using this procedure even chimneys that cannot be lined using any other procedure or can only be lined by demolishing the chimney wall can also be lined using this procedure. At the same time finished FuranFlex® liner tubes are more durable and safer than the materials used for traditional chimney lining.

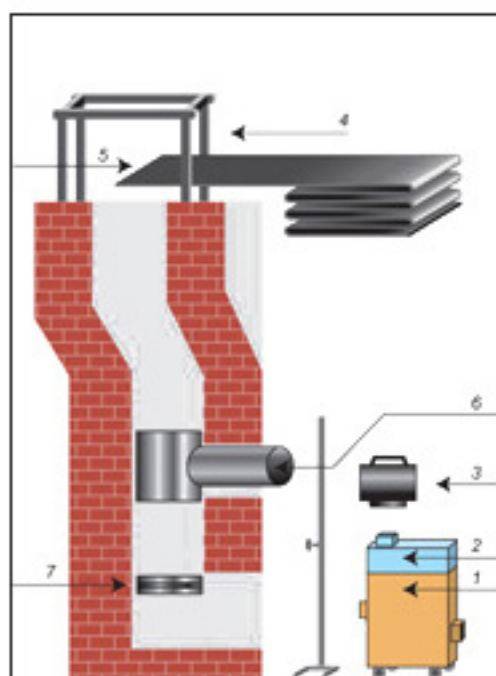
The FuranFlex® procedure has one disadvantage, using this technology requires specialist skill and experience. Below we provide a quick insight into the steps of installing FuranFlex. Many different types of boiler and chimney exist so below we describe the simplest lining task in the case of a medium-sized, natural draft, distorted chimney.



## a. Preparing the chimney lining

- Camera inspection
- Removal of foreign objects
- Cleaning, if necessary
- Filling up steam generator with water (distilled water if possible)
- Connecting steam generator to gas bottle
- Starting steam generator heating

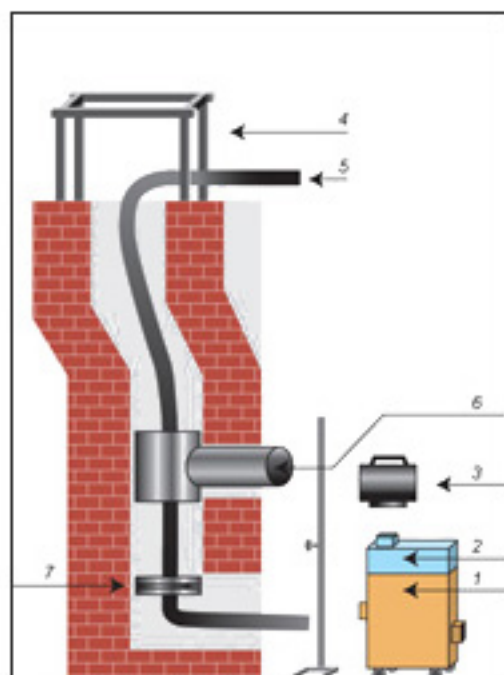
K1. monitor  
K2. camera



## b. Setting up upper and lower frame

- Putting in T-joint
- Placing FuranFlex® liner tube (5) near the

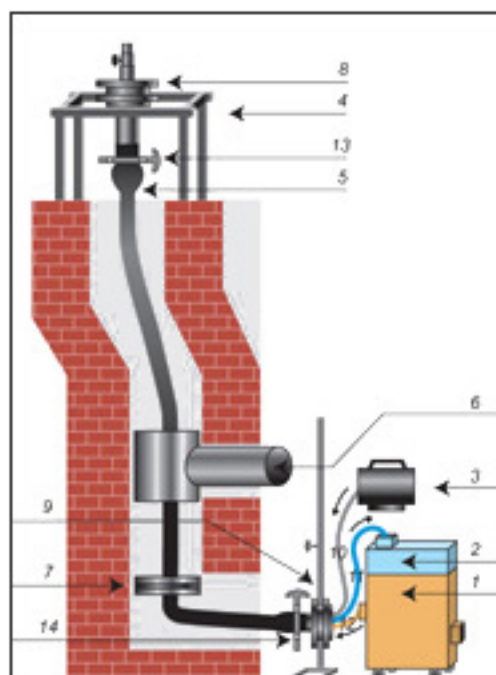
1. steam generator  
2. watertank  
3. fastblower  
4. upper head holder  
5. FuranFlex®  
6. T-joint  
7. calibrating ring



## c. Pulling soft FuranFlex® (5) liner tube into the chimney flue

- In the case of smaller chimneys from the top towards the bottom, in the case of larger chimneys from the bottom towards the top with the help of a winch
- The liner tube goes through the T-joint (6) and the calibrating ring (7)

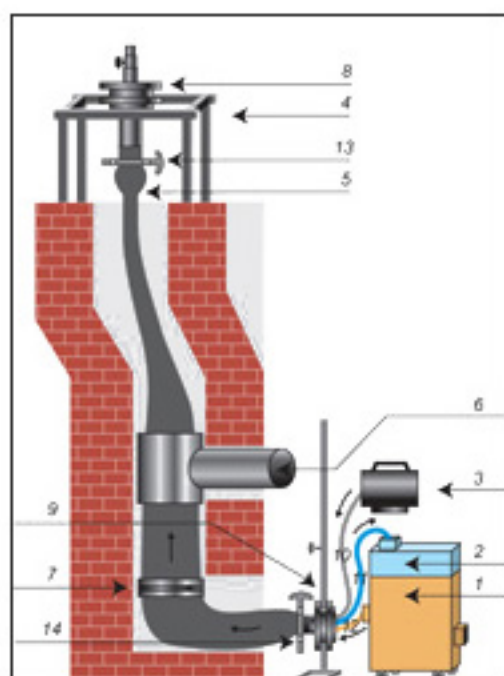
1. steam generator • 2. watertank • 3. fastblower • 4. upper head holder • 5. FuranFlex® • 6. T-joint • 7. calibrating ring



## d. Placing upper and lower adapter heads (13-14) in the FuranFlex® hose

- Fixing adapter heads to the frames
- Connecting the pipe (10) of the fast blower (3)
- Connecting the pipe (12) of the steam generator (1)
- Connecting the condense water return pipe (11) to the water tank (2)

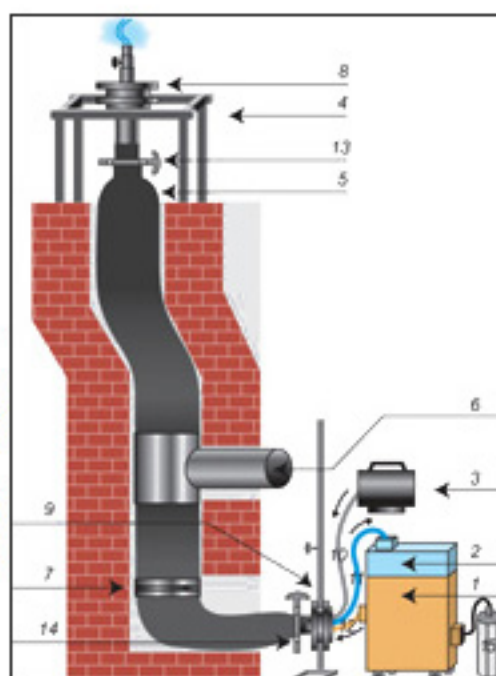
1. steam generator • 2. watertank • 3. fastblower • 4. upper head holder • 5. FuranFlex® • 6. T-joint • 7. calibrating ring • 8. upper adapterhead • 9. lower adapterhead • 10. air inlet pipe • 11. condense water return pipe • 12. steam inlet pipe • 13., 14. rope clammer



## e. FuranFlex® Inflating the FuranFlex® hose with the jet blower

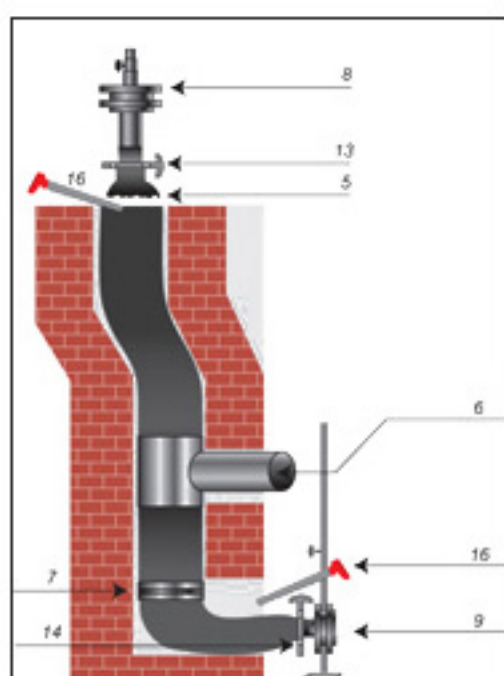
- Upper valve (8) closed
- Checking

1. steam generator • 2. watertank • 3. fastblower • 4. upper head holder • 5. FuranFlex® • 6. T-joint • 7. calibrating ring • 8. upper adapterhead • 9. lower adapterhead • 10. air inlet pipe • 11. condense water return pipe • 12. steam inlet pipe • 13., 14. rope clammer • 15. gas-cylinder



## f. FuranFlex® hardening

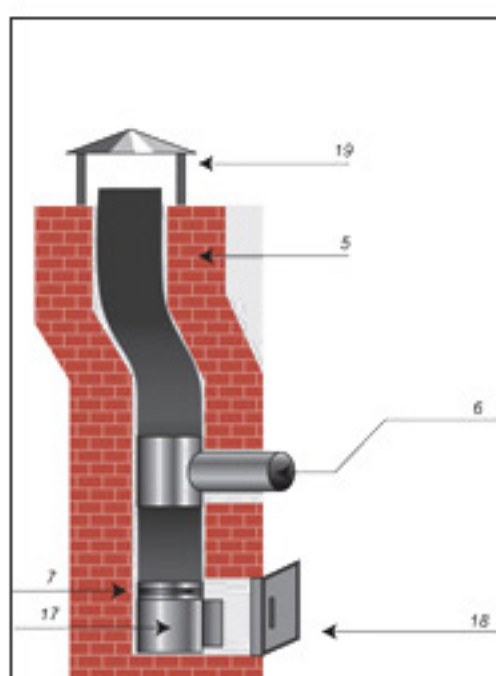
- Setting required pressure on steam generator (0.1 - 0.3 bar, in the case of a larger diameter the pressure is lower)
- Starting steam injection
- Opening upper valve to a minimum extent
- Monitoring the hardening process. Increasing steam pressure when slight hardening occurs (maximum value: 0.4 bar)
- Cooling FuranFlex® (with jet blower if available)



## g. Cutting off unnecessary tube length above upper adapter head

- Cutting off FuranFlex® below calibrating ring (7)

5. FuranFlex® • 6. T-joint • 7. calibrating ring • 8. upper adapterhead • 9. lower adapterhead • 13., 14. rope clammer • 16. saw



## h. Fitting cleaning element (17) to calibrating ring (7)

- Locking inspection door (18)
- Mounting rain shield (19)

5. FuranFlex® • 6. T-joint • 7. calibrating ring • 17. condense cleaning element • 18. inspection door • 19. chimney top