



FIL- ELECTRIC BOILERS 31.5 to 1800 kW



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JÄSPI offers a wide range of high quality electric boilers for a cost-effective and scalable solution for private residences, schools, warehouses, multistorey buildings, and industrial sites. These boilers have been designed to be reliable and user-friendly heating units. They incorporate intelligent control system, main switch, flange fitted Incoloy alloy immersion heaters, high quality insulation and strong metal casings. These boilers are built to last.

Intelligent controls allow FIL boiler to be used in various applications like day / night time operation, summer only operation, full or multi-stage partial load and for industrial processes.

JÄSPI-FIL electric boiler is a professionals choice.

JÄSPI-FIL ELECTRIC BOILERS

FIL electric boilers are factory-equipped and tested. They feature advanced industrial quality Incoloy alloy flange immersion heaters with a specific surface rating $< 7.5 \text{ W/cm}^2$. Reliable and user-friendly automatic control system allows various remote control methods. Automatic boiler power regulation system ensures the heating performance while constantly adjusting the minimum required boiler power to minimize the frequency and number of contactor activations. This automatic power regulation is available in 7, 15 and 30 stages.

Other permanent features of the automatic system are:

- Automatic delay after power disconnection
- Automatic power control according to the building load (permanent supply 0...5 A current transformers)
- Back-up heating option
- Availability of remote operation
- Limitation of power stages (max. power limitation)

Automatic power control system can be supplied with an outdoor temperature compensation where a user specified curve can also be used.

Boilers over 120 kW are equipped with an automatic anti-boiling control.

AUTOMATIC MASTER SAFETY SWITCH:

All JÄSPI-FIL boilers are equipped with a main safety switch for manual control and additional automated safety.

If contactor terminals stick to each other on one reason or another (e.g. after long-term operation), the safety switch will automatically switch off the boiler to prevent overheating, ignition, or other severe damages.



JÄSPI-FIL-B ELECTRIC BOILERS

FIL-B boilers are used for heating and domestic hot water. An automatic 7-stage control system maintains constant heat automatically. Included current transformers ensure that only the minimum amount of electricity is used while constantly checking the other electric load in the house. The 31.5 and 42 kW boilers have a 240L water capacity and 52.5, 70, 84 and 105kW models 750L internal water capacity.

If the domestic hot water is taken directly from the boiler, a hot water coil needs to be fitted. The coil size will be determined according to the DHW consumption.

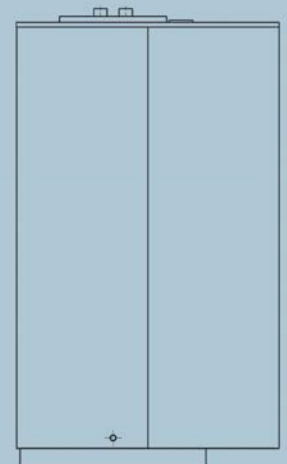
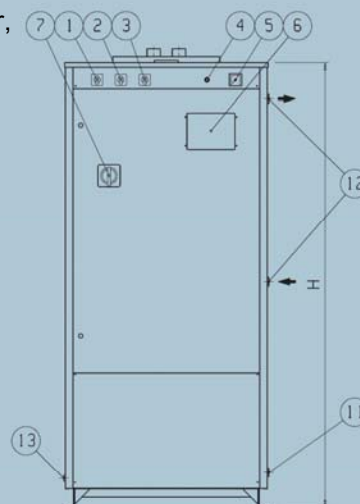
FIL-B boiler are suitable for various applications, e.g. workshops, schools, and private houses.

FIL-B TECHNICAL DATA:

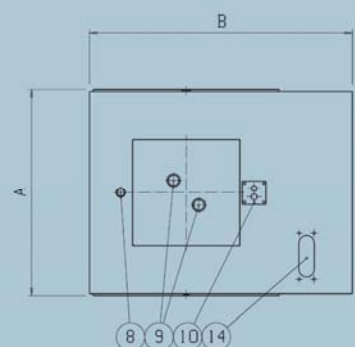
- Maximum working pressure 1.5 bar
- 7 power stages
- Optional hot water coil (normally 31.5-42 kW = 35 l/min, 52.5-105 kW = 50 l/min)

SPECIFICATIONS

1. Boiler control switch
2. Back-up heating switch
3. Circulationpump switch
4. Temperature limiter
5. Combined pressure and temperature gauge
6. Control board
7. Main switch
8. DN25 airing point
9. DHW coil
10. Mixing valve for heating (31.5-52.5 kW DN25; 70-105 kW DN32)
11. Expansion vessel connection DN25
12. Extra circuit DN25 (for 750 L boilers only)
13. Drain DN15
14. Electrical connections



Power kW	H mm	A mm	B mm	Volume l	Weight kg
31.5	1,400	600	815	240	150
42	1,400	600	815	240	150
52.5	1,900	900	1,100	750	330
70	1,900	900	1,100	750	330
84	1,900	900	1,100	750	330
105	1,900	900	1,100	750	330



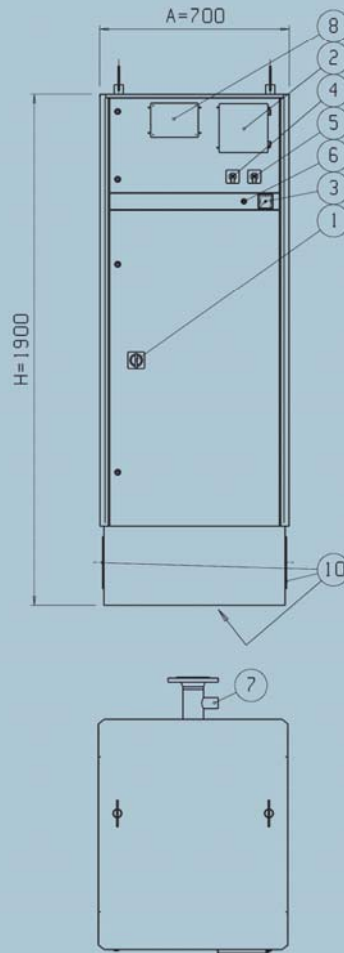
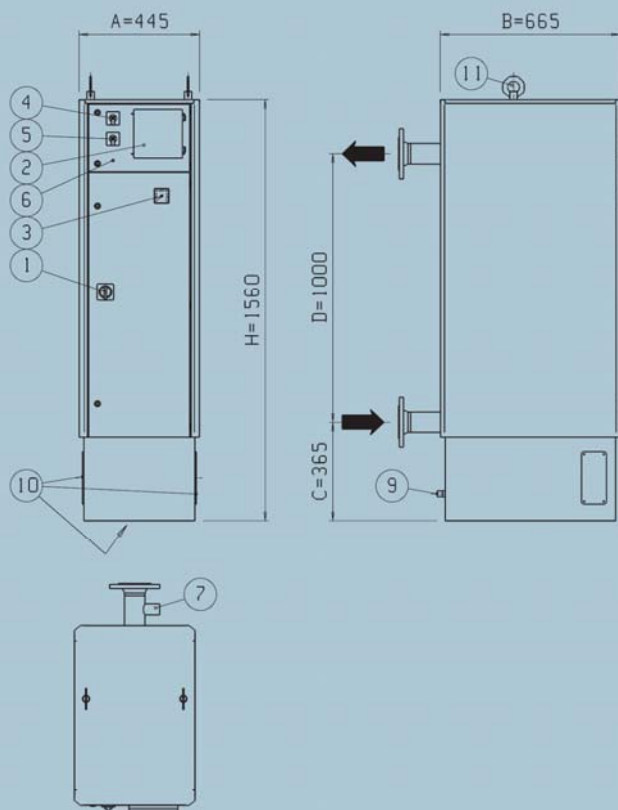
JÄSPI-FIL-SPL ELECTRIC BOILERS

FIL-SPL are lightweight and compact through-flow boilers designed for heating private houses and multistorey buildings, as well as industrial, multi-point and district heating networks. Boilers are equipped with reliable and service friendly flange fitted Incoloy alloy immersion heaters.

FIL-SPL series offer flexibility for summer only, full, partial or day / night time operation. Normal operating temperature range is 30°C ... 100°C. Design and maximum operating pressure is 10 bar.

FIL-SPL 31.5- 105 kW

FIL-SPL 112-300 kW



SPECIFICATIONS

1. Main safety switch
2. Circuit board
3. Temperature gauge
4. Boiler control
5. Heating / backup heating switch
6. Limiting thermostat
7. Anti-boiling pipe connection DN25
8. Anti-boiling control
9. Drain
10. Electrical connection
11. Lifting lug

Power	Power stage	H mm	A mm	B mm	Sleeve DN	Volume l	Weight kg
31.5	7	1,560	445	665	50	85	170
42	7	1,560	445	665	50	85	170
52.5	7	1,560	445	665	50	85	170
70	7	1,560	445	665	50	85	170
84	7	1,560	445	665	50	85	170
105	7	1,560	445	665	50	85	170
112	7	1,900	700	855	65	220	320
150	15	1,900	700	855	65	220	320
180	15	1,900	700	855	65	220	320
225	15	1,900	700	855	65	220	320
300	15	1,900	700	855	80	220	320



JÄSPI-FIL-SPL 400-1800 kW

The FIL-SPL boilers are large, intelligent and extremely powerful for the most demanding applications.

If even larger powers are required we will custom build power supply and pipe connections (left-hand or right-hand) to suit the property and the boiler use.

Standard supply:

FIL-SPL						
Housing type	Power range, kW	Dimensions, mm			Volume l	Weight kg
		H	A	B		
C	400>=600	1,800	2,025	1,025	(480)	650
D	600>=900	2,200	2,400	1,025	(750)	1,200
E	900>=1200	2,400	2,400	1,200	(1,000)	1,500

FLANGE PIPE DIMENSIONS	
Power range kW	Connecting pipe DN
400>=500	80
500>=1,000	100
1000>=1,200	125

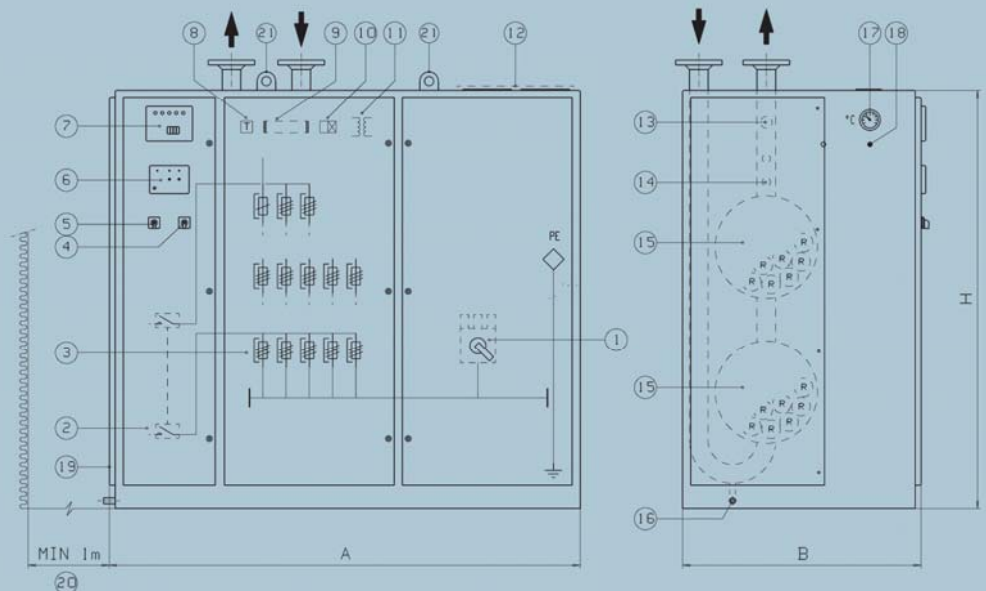
Design pressure: 10 bar
Operating temperature: 30...100°C



SPECIFICATIONS

1. Main safety switch
2. Power stage contactors
3. Power stage fuses
4. Back-up heating switch
5. Control switch
6. Anti-boiling protection
7. Circuit board
8. Back-up heating thermostat
9. Terminal blocks
10. Time relay
11. Control voltage transformer
12. Electric leads
13. Anti-boiling protection sensors
14. Temperature sensors
15. Electric heaters
16. Drain
17. Temperature gauge 120°C
18. Limiting thermostat 105°C
19. Heater access door
20. Heater access space
21. Lifting lug

The drawing shows "left-hand" boiler (i.e. heater access door is on the left and electric leads are on the right)



We reserve the right to modify design and dimensions.



KAUKORA OY

WWW.JASPI.UK

ISO 14001
ISO 9001
EN 729-2