

Solid Fuel Boiler



- **Passat FK/HO Series, boiler size from 20 – 90 kW**
- **Combustion of wood and straw**
- **Large stoking doors and long combustion chambers of large diameter**
- **Simple and easy firing technique with effective combustion**

The FK/HO series are a part of PASSAT's solid fuel programme.

The large stoking door and the long combustion chamber provide the possibility for burning large pieces of wood and straw.

The boilers are delivered with afterburning plate, which ensures effective combustion, robust draught regulator, boiler thermometer, as well as ash scraper.

The boilers FK 30/40 and HO 70/90 are supplied with easy cleaning smoke cooler which is thermostat controlled.

If smoke comes from the boiler with a temperature greater than 225 °C, a thermostatic damper will automatically close and the smoke will be guided through the water cooled convecter, which removes away the excess heat value, so an absolute mimimum goes into the chimney.

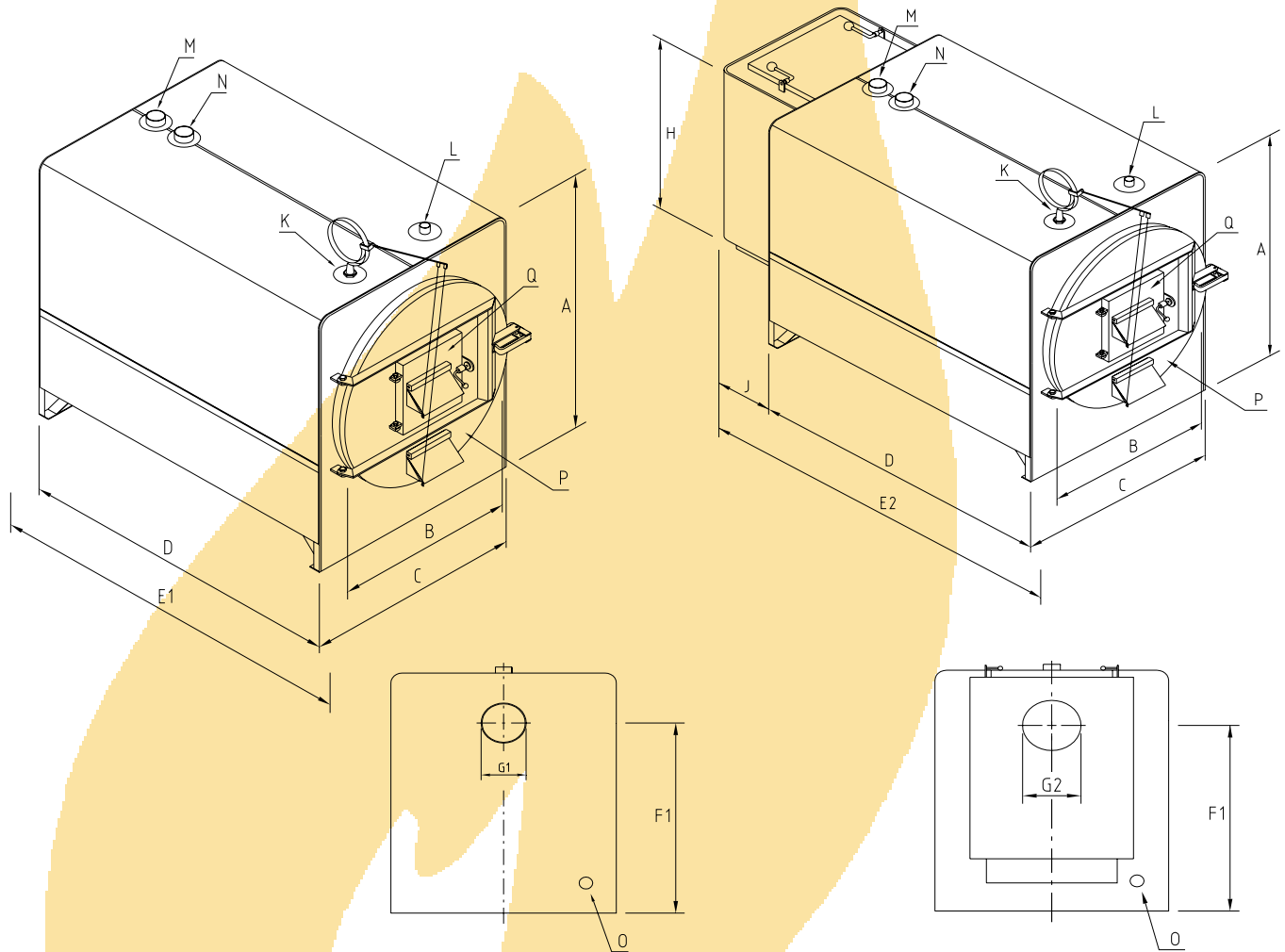
To reach the most effective utilization of the fuel, the boiler must be connected to a storage tank. Thereby the combustion can control the boiler to the actual heating requirement.

All the boilers **MUST** be connected with thermostat controlled bypass system



Technical Data

Type		FK 20	FK 30	FK 40	HO 50	HO 70	HO 80	HO 90
Output wood	(kW)	20	32	39	44	80	55	90
Output straw	(kW)							
Diameter combustion chamber	(mm)	526	526	526	850	850	1110	1110
Length combustion chamber	(mm)	920	920	1170	1400	1400	1400	1400
Capacity straw (small bales)	(pcs)	-	-	-	3	3	6-8	6-8
Heat surface	(m ²)	2,0	3,0	3,5	4,5	7,0	6,5	9,0
Water content	(L)	105	130	160	175	230	360	415
Weight	(kg)	240	328	368	550	685	820	955
Testing pressure	(bar)	4,0						
Working pressure	(bar)	2,0						



Type		FK 20	FK 30	FK 40	HO 50	HO 70	HO 80	HO 90
A: Height	(mm)	900	900	900	1200	1200	1470	1470
B: Door diameter	(mm)	526	526	526	850	850	1110	1110
C: Width	(mm)	750	750	750	1000	1000	1410	1410
D: Length	(mm)	1000	1000	1250	1500	1500	1500	1500
E1: Length total	(mm)	1220	-	-	1710	-	1740	-
E2: Length with smoke exh.	(mm)	-	1650	1900	-	2200	-	2230
F1: Center exhaust	(mm)	700	700	700	950	950	1140	1220
G1: Diameter Pipe	(mm)	160	200	200	200	250	250	250
H: Height smoke cooler	(mm)	-	860	860	-	850	-	850
J: Length smoke cooler	(mm)	-	470	470	-	490	-	490
K,L: RG f. draught regulator/boiler therm.		1"	1"	1"	1"	1"	1"	1"
M,N,O: RG for flow and return		5/4"	5/4"	5/4"	2"	2"	2"	2"