

BRUNNER WATER BOILERS



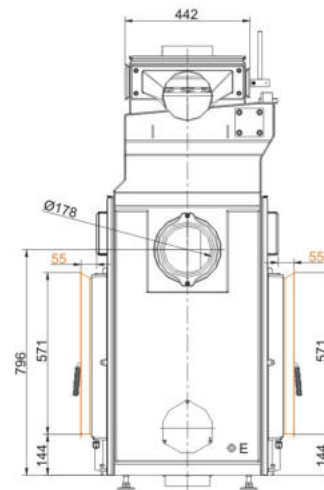
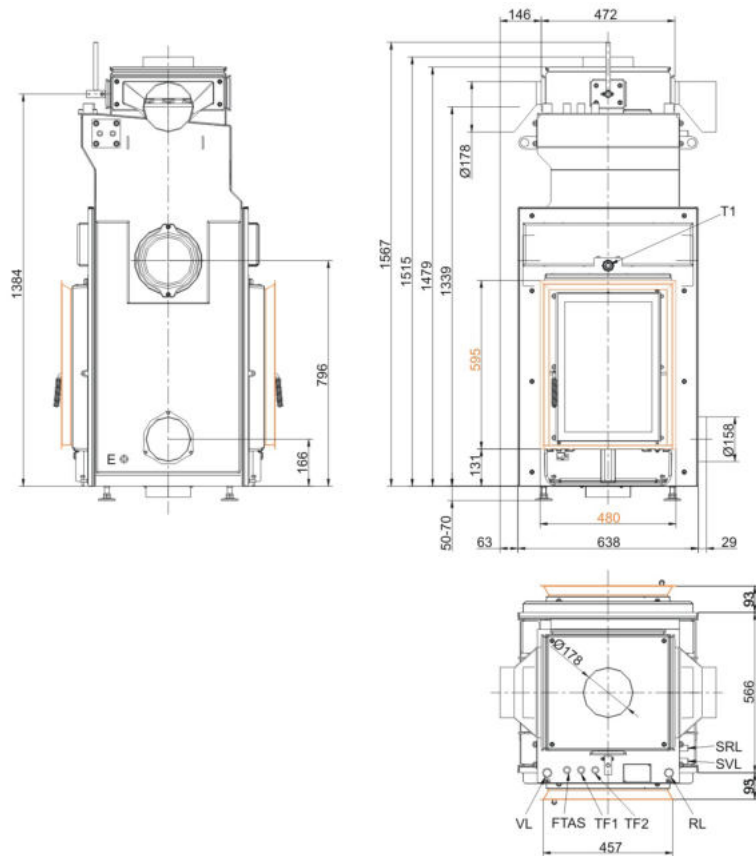
HKD 2.2 SK Tunnel with cleaning mechanism

State: 2023-09-11



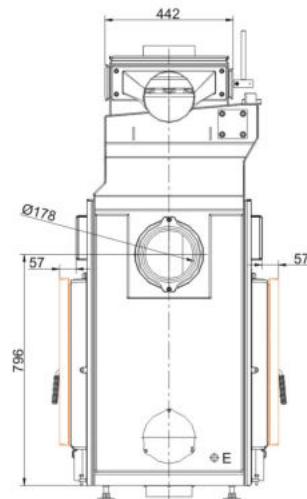
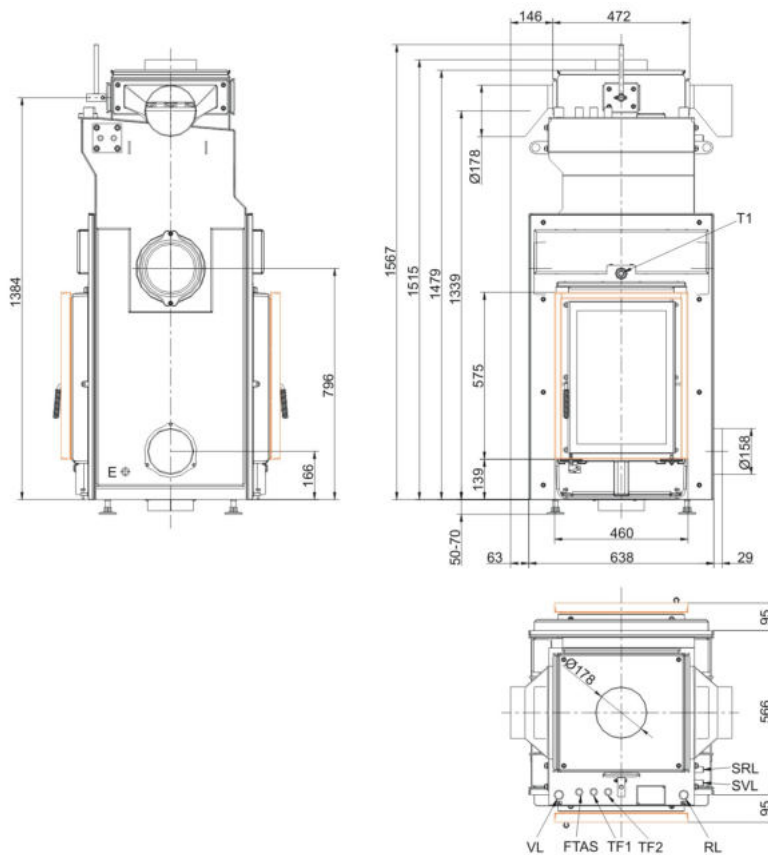
BRUNNER®
made in germany.

Dimension sheets - HKD 2.2 SK Tunnel with cleaning mechanism



- VL supply 1"ext. th.
- RL return boiler 1"ext.th.
- E drain 1/2"int. th.
- SVL supply cooling pipe outlet ext.th.
- SRL return cooling pipe outlet 1/2"ext.th.
- FTAS socket for thermal safety sensor int.th.
- TF1 socket 1/2" for sensor int.th.
- TF2 socket 1/2" for sensor int.th.

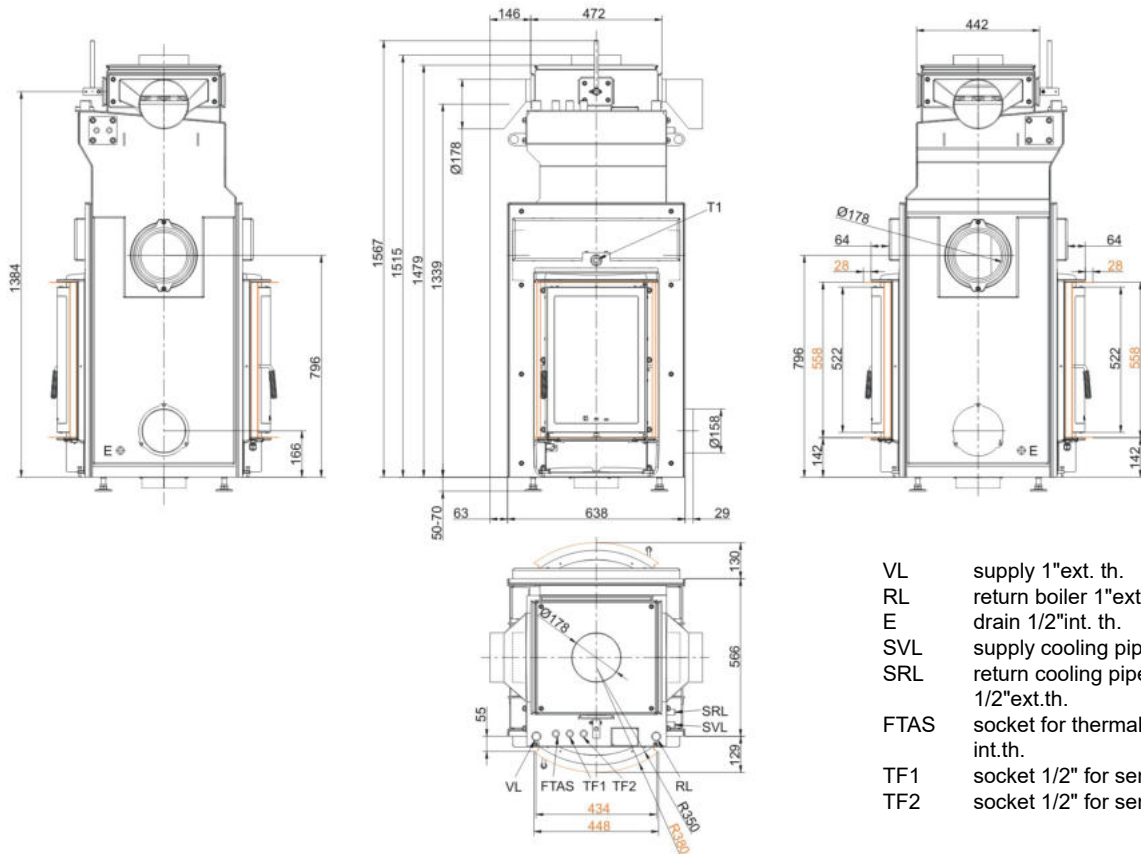
... flat with door frame



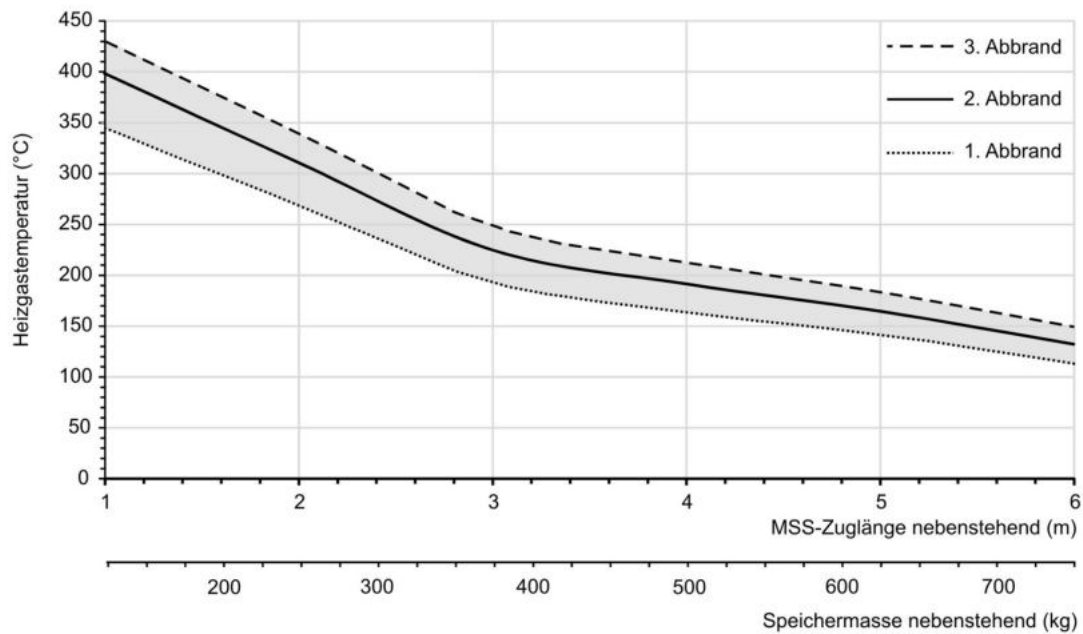
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... flat with mounting frame

Dimension sheets - HKD 2.2 SK Tunnel with cleaning mechanism



... round



Design characteristics for adjacent storage mass

We suggest for CAD planning Palette CAD. Permanent updated drawings: www.brunner.de
 Frames/ flue gas outlet connection/ combustion air supply connection/ front variants/ support bearing are marked in color.

Planning and installation - HKD 2.2 SK Tunnel with cleaning mechanism

Tested according to		EN 13229 W	EN 13229 W
Values measured at		Rated power	Practical avg.
Data for functional demonstration			
Rated heat power	kW	12	-
Fire wood volume	kg/h	3.4	5
Combustion performance	kW	13.5	17
Flue gas mass flow	g/s	10	21
Outlet temperature (before reheating surface)	°C	335	385
Flue gas temperature after:			
1 x adjoining cast iron radiator (GNF 8/10)	°C	125	200
4,9 m ceramic accumulator ¹⁾	°C	-	180
3,4 m accumulation stones (MSS) ¹⁾	°C	-	210
boiler	°C	125	210
Necessary supply pressure	Pa	15	15
Combustion air consumption	m³/h	34	50
Combustion air connection Ø	mm	160	160
Heating gas temperature (before the hood/dome variant)			
insert flue outlet nozzle	°C	335	385
Heat distribution			
Insert / reheating surface	%	5 / 10 - 50	5 / 10 - 50
Glass pane (single / double)	%	30 / 25	30 / 25
Boiler	%	30 - 70	30 - 70
Cross-section of gratings ²⁾			
Convection air	cm²	400 / 200 / 300	400 / 200 / 300
Supply air	cm²	400 / 200 / 300	400 / 200 / 300
Minimal distances of the fireplace			
to cladding, insulation layer	cm	6	6
to mounting floor	cm	6	6
Thermal insulation without / with air gratings ³⁾			
Mounting wall	cm	8 / 6	8 / 6
Floor	cm	0	0
Ceiling	cm	10 / 8	10 / 8
Brick lining for combustible wall	cm	10	10
Water boiler data			
Max. operating pressure	bar	3	3
Max. flow temperature	°C	100	100
Water volume	liter	78	78
Connections flow / return	inches	1	1
Weight			
Fireplace / combustion chamber	kg	357 / 64	
Meets requirement/limit values for:			
Germany/ Austria / Switzerland / Norway	1.BImSchV (Stufe 2) / 15a BVG (2015) / LRV / -		

1) Approximate value. Determination according to design characteristics for adjacent storage mass or proof of function provided by calculation

2) for fireplace inserts / flue gas pipe / metallic reheating surface

3) Values determined with upper air cross- sections; stove cladding is heat emitting