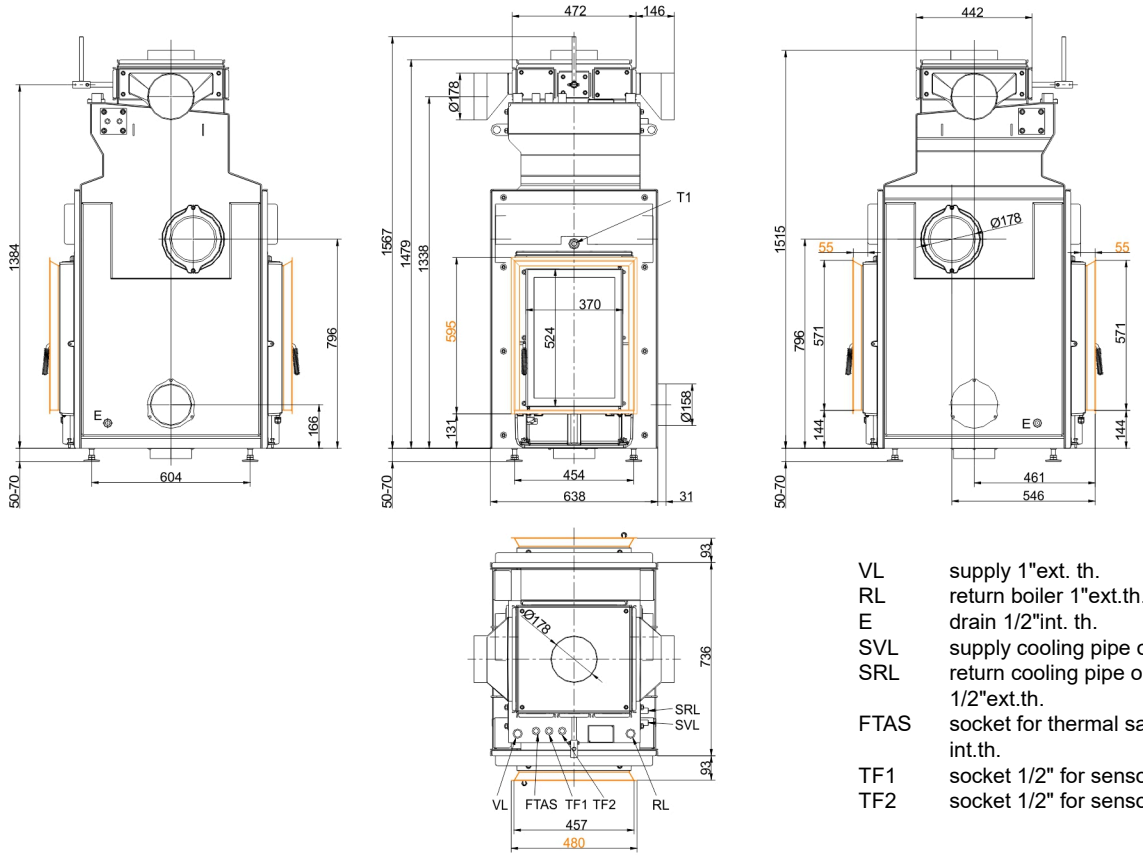
BRUNNER WATER BOILERS

HKD 2.2 XL-SK/h Tunnel

State: 2023-09-11

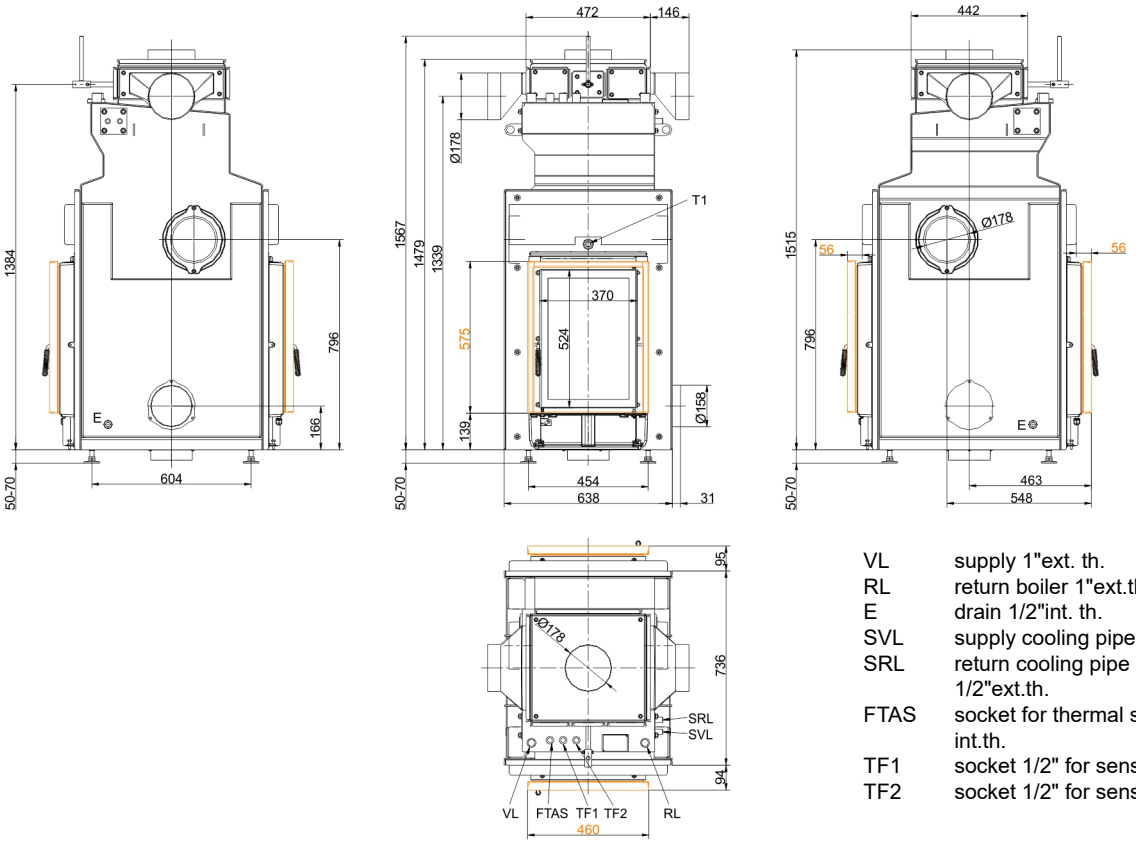
BRUNNER®
made in germany.

Dimension sheets - HKD 2.2 XL-SK/h Tunnel



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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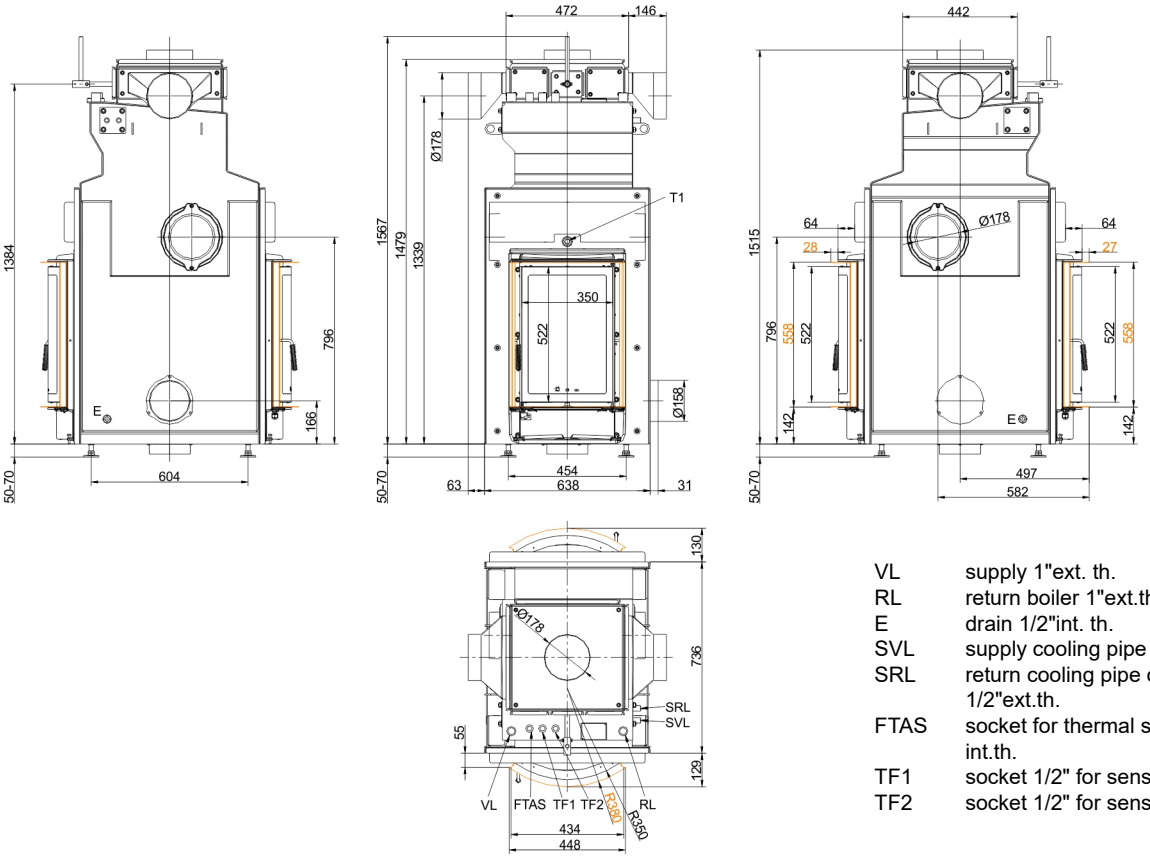

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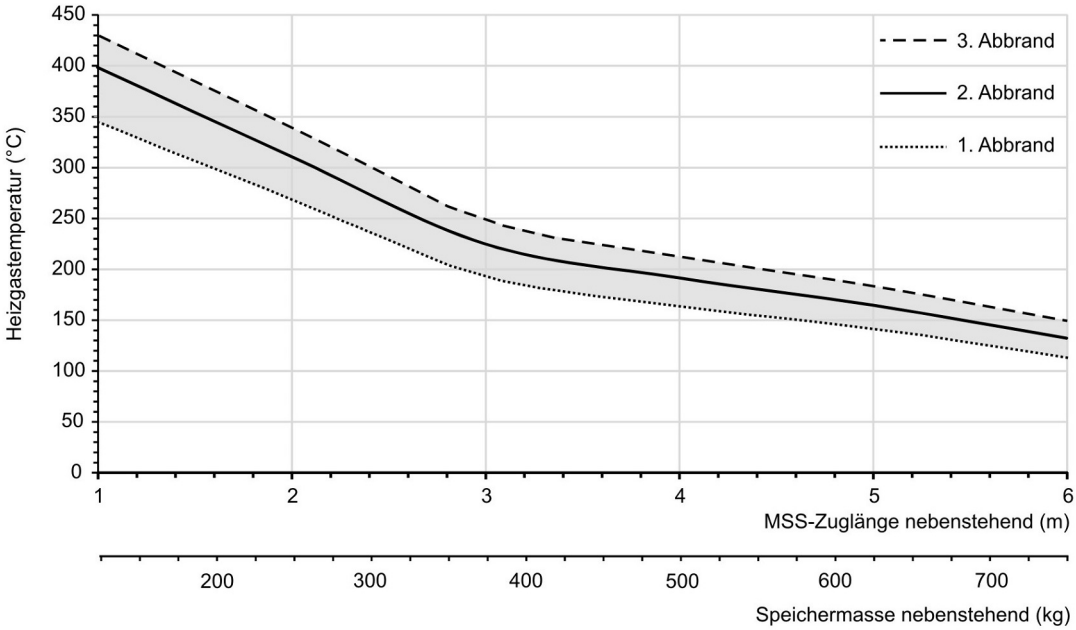

Design characteristics for adjacent storage mass

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 XL-SK/h Tunnel

Tested according to		EN 13229 W	EN 13229 W
Values measured at		Rated power	Practical avg.
Data for functional demonstration			
Rated heat power	kW	13	-
Fire wood volume	kg/h	3.6	6
Combustion performance	kW	15	25
Flue gas mass flow	g/s	13.5	21
Outlet temperature (before reheating surface)	°C	335	410
Flue gas temperature after:			
1 x adjoining cast iron radiator (GNF 8/10)	°C	135	200
4,9 m ceramic accumulator [1)]	°C	-	180
3,4 m accumulation stones (MSS) [1)]	°C	-	210
boiler	°C	135	210
Necessary supply pressure	Pa	15	15
Combustion air consumption	m^3/h	34	55
Combustion air connection Ø	mm	160	160
Heating gas temperature (before the hood/dome variant)			
insert flue outlet nozzle	°C	335	410
Heat distribution			
Insert / reheating surface	%	5 / 5 - 45	5 / 5 - 45
Glass pane (single / double)	%	30 / 25	30 / 25
Boiler	%	25 - 65	25 - 65
Cross-section of gratings [2)]			
Convection air	cm^2	500 / 200 / 300	500 / 200 / 300
Supply air	cm^2	500 / 200 / 300	500 / 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	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	91	91
Connections flow / return	inches	1	1
Weight			
Fireplace / combustion chamber	kg	411 / 86	
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

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