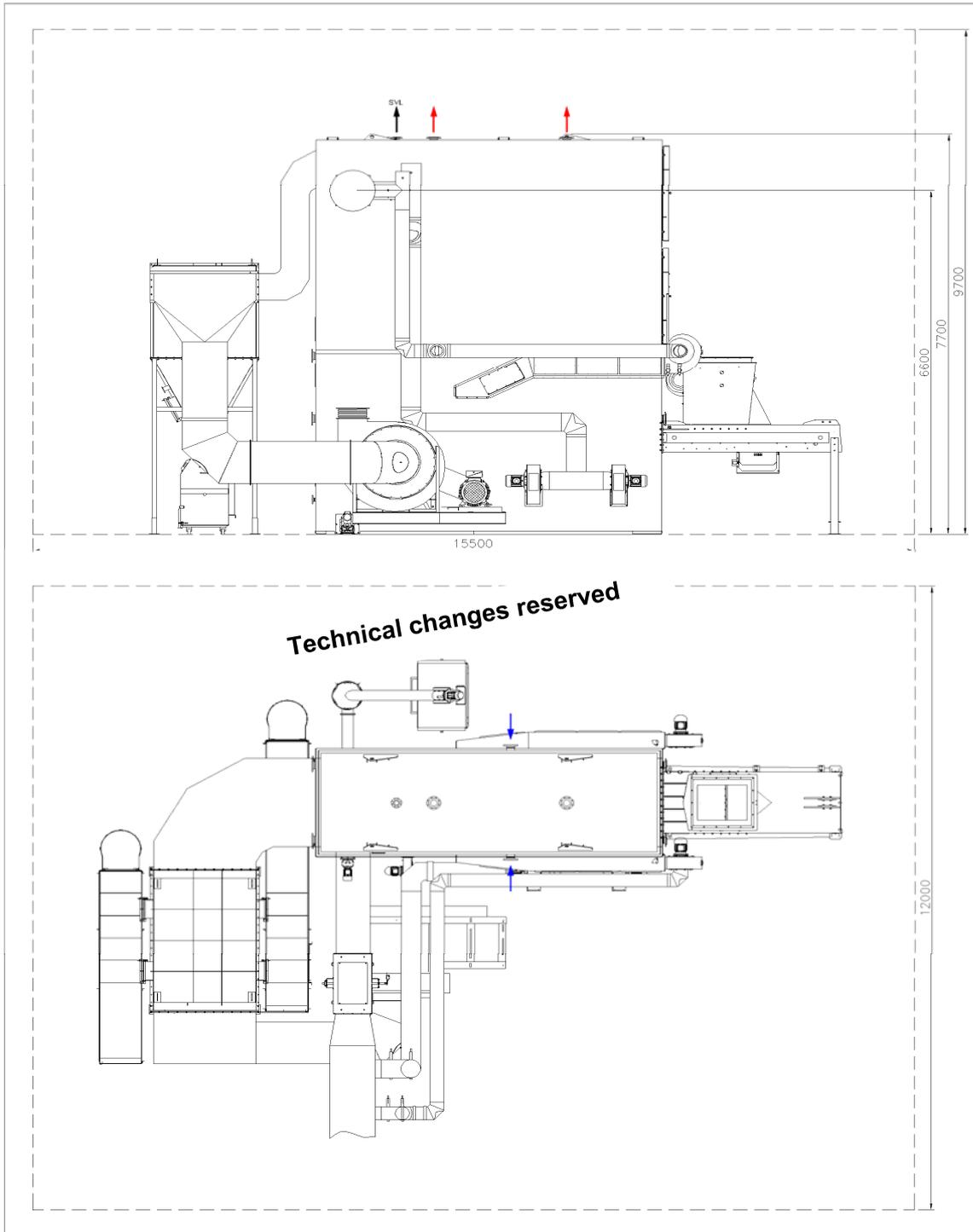


# Technical Datasheet for RRK 3000 WID with combustion TSRF



## Notes

Min. required inlet opening for boiler installation in one piece (lxwxh)	mm	tbc
Min. required inlet opening for divided boiler installation (lxwxh)	mm	tbc

Questions concerning the transfer of the vessel into the boiler room have to be discussed with the Herz.  
Schematic drawing. Vessel will be customized for the customers needs.

Herz operating conditions shall apply. Conditions for combustion type TSRF

**Technical changes reserved**

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# Technical Datasheet for RRK 3000 WID

## with combustion TSRF

<b>Performance data</b>		max. nominal output PN		kW	3000
		max. output PF		kW	3371
<b>Combustion data</b>		grate surface		m <sup>2</sup>	6,65
		combustion chamber volume	A	m <sup>3</sup>	29,8
		heat exchanger surface		m <sup>2</sup>	274
	<b>6 bar</b>	total weight with water	B	kg	83900
		total weight without water	B	kg	67900
		boiler block	C	kg	52740
	<b>10 bar</b>	total weight with water	B	kg	86900
		total weight without water	B	kg	70900
		boiler block	C	kg	55740
		combustion	C	kg	15160
		refractory clay	D	kg	31000
<b>Dimensions</b>		combustion [l x w x h]	E	mm	6100x2100x2100
		boiler block [l x w x h]	E;F	mm	6100x2740x5600
		complete [l x w x h]	E;F	mm	6100x2740x7700
<b>Hydraulic connections</b>		flow	G	Zoll, DN	2xDN125 - PN16
		return	G	Zoll, DN	2xDN125 - PN16
		safety flow	H	Zoll, DN	DN80 - PN16
		safety heat exchanger	I	Zoll	0
		socket for thermostat		Zoll, DN	8 x 1/2 "
		drain		Zoll, DN	8 x DN50 - PN16
		water content		l	16000
		resistance at Δt 20°		mbar	160
		flow at Δt 20°		m <sup>3</sup> /h	129
	min. pump flow		m <sup>3</sup> /h	148	
<b>Electric connections</b>		primary fan		kW	2x3
		sekundary fan		kW	2x3
		exhaust gas fan (without HV)		kW	18,5
		exhaust gas fan (with HV)		kW	45
		flue diameter	J	mm	600
		flue area		m <sup>2</sup>	0,2827
		draft	K	Pa	10
		exhaust gas temperature	L	°C	160-180
		M30 / W30	M	Bm <sup>3</sup> /h	12000

### Notes

- A** Total combustion volume until heat exchanger entry
- B** Weight of combustion, boiler block and refractory including doors and casing
- C** Weight including refractory, doors and casing
- D** Weight of refractory including concrete and burning chamber interior isolation
- E** Dimensions including mounted doors
- F** Boiler block will be in pieces from boiler range 1800-2300 upwards.
- G** All existing flanges must be connected (for boiler types RRK 22-49 and RRK 80-175 only 1 return flange has to be connected)
- H** Safety valve has to be dimensioned, provided and mounted by the customer and has to comply with local laws and other governmental enactments
- I** The mounting of the thermal safety valve including the piping has to be done by the customer.
- J** Chimney diameter and height and also the cleaning openings have to be approved by local authorities.
- K** The vessel is equipped with a flue gas fans, which assures the necessary vacuum into then combustion chamber.
- L** Flue gas temperature depends on the used combustible and the operating state (part or full load) and also of the degree of pollution of the heat exchanger.
- M** Flue gas volume at λ 1,6 (8% residual oxygen) and 180°C flue gas temperature

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