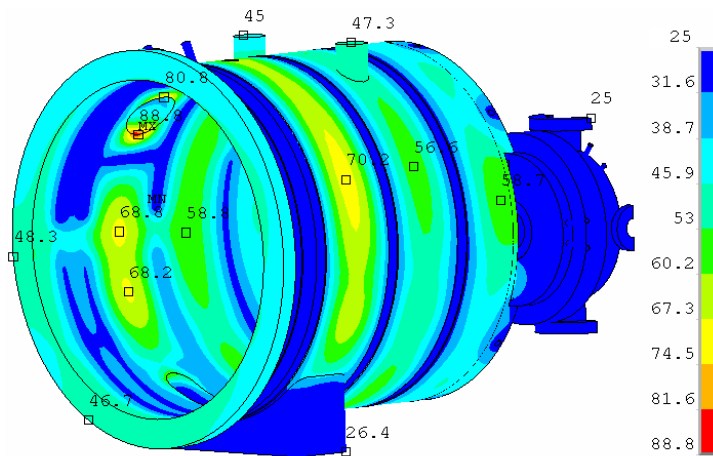
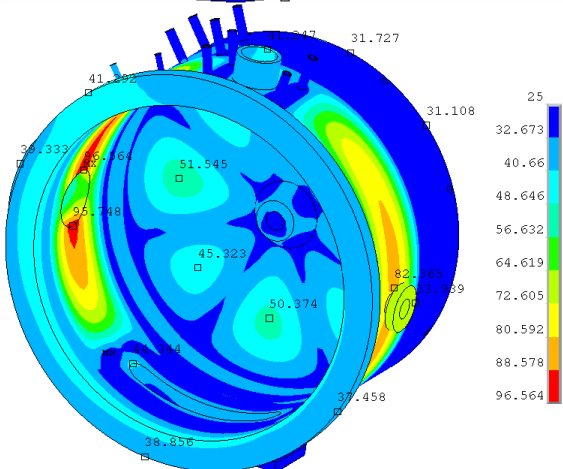


Танк 20, скважность 10% (2010 год)
 $T_{max} = 152^{\circ}\text{C}$



Танк 20, скважность 5% (2010 год)
 $T_{max} = 88^{\circ}\text{C}$



Танк 1, скважность 14% (2005 год)
 $T_{max} = 96^{\circ}\text{C}$

Russian Prototype

date:

9.11.2007, Rolf Wegner

pulse period [ms]: 40.0

pulse length [ms]: 1.0

(duty cycle: 25Hz, 1ms)

frequency [MHz]: 352.0704

power measurements:

pick up	damping [dB]	detector	voltage [mV]	power [kW]	precision [%]
forward	66.74	3	385	323	± 17
reflected	~ 67	4	0	0	± 17
tank 1 [waveguide]	60.3	R1 -> CH1	808	340	± 15
tank 2	59.7	R2 -> CH2	882	345	± 15
coupling cell	~ 50	2	0	0	± 15

temperature measurements:

RF peak power in 1st tank: ~ 145 to 198 kW

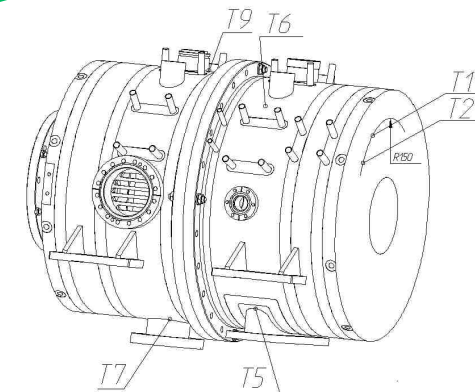
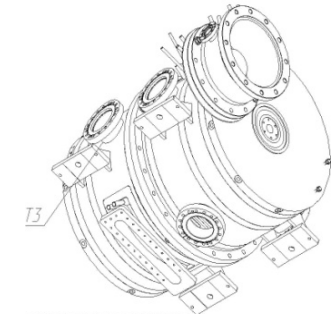
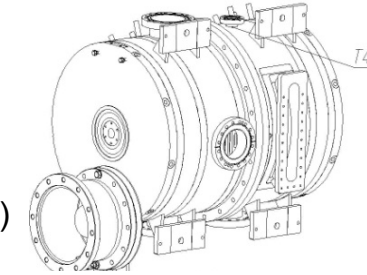
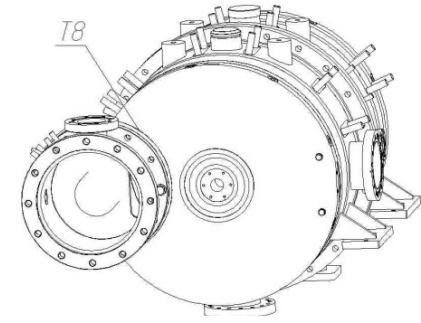
(pick up above corresponds to full input power)

RF average power in 1st tank: ~ 3.6 to 5.0 kW

(duty cycle 2.5%)

water pressure inlet: 8 bar

water pressure outlet: 3 bar



sensor	position	T_ref [°C]	T_operation [°C]
T1	outer surface of the 1st half-tank end wall	35	36
T2	outer surface of the 1st half-tank end wall	28.2	30
T3	outer surface of the 1st half-tank shell below the tuner port	39.2	59
T4	outer surface of the 1st half-tank shell below the rf-pick-up port	38.4	40
T5	outer surface of the 1st half-tank shell near the waveguide flange	30	31
T6	outer surface of the 1st half-tank shell below the eye-bolt holder	33.4	34
T7	outer surface of the 2nd half-tank shell near the side pumping port	38	39
T8	outer surface of the 2nd half-tank end wall above the coupling iris	28.2	29
T9	outer surface of the 2nd half-tank shell near the drift tube connection	30	39