



FR-59251 Allennes Les Marais (Lille)

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ELECTRON TUBES

TRIODE CA12000

Output power	30 kW
Anode Voltage	12.0 kV
Anode current	5.5 A
Anode dissipation	10 kW

ELECTRICAL

Filament directly heated	
Filament Voltage +5% -10%	5.8 V
Filament Current	150 A
Max surge current	500 A
Cold resistance	
Capacitances:	
grid-anode	21 pF
grid-cathode	55 pF
cathode-anode	1.0 pF
Amplification factor μ	22
Transconductance $V_a=10$ kV, $I_a=4$ A	50 mA/V

MAXIMUM RATINGS

Frequency	100 MHz
Anode voltage up to 70MHz	12.0 kV
Control grid voltage	-1500 V
Anode current	5.0 A
Control-grid current at full load	0.80A
Control-grid current at no load	1.50 A
Peak cathode current:	
CW	25 A
Pulse operation	35 A
Anode dissipation:	
Inlet air 25 °C / Industrial water 5 k ohm.cm	15 kW
Inlet air 45 °C / Distilled water 50 k ohm.cm	10 kW
Grid dissipation up to 70 MHz	600 W
Grid resistor at blocked tube	10 k ohm



OPERATING CONDITIONS

Frequency	30 MHz
Output power	30.0 kW
DC anode voltage	10.0 kV
DC grid voltage	-1000 V
Peak RF grid voltage	1400 V
DC anode current	4.00 A
DC grid current	550 mA

Anode cooler is calculated up to 10000w. The chimney is standard for all diameter 160mm.

Filament's connectors are made with thick leads. They cooled the junctions of filament and it is better with added blowing.

Equivalent Tubes:

ITL12
3CX10000H3
YD1170
YD1173
YD1174
8801

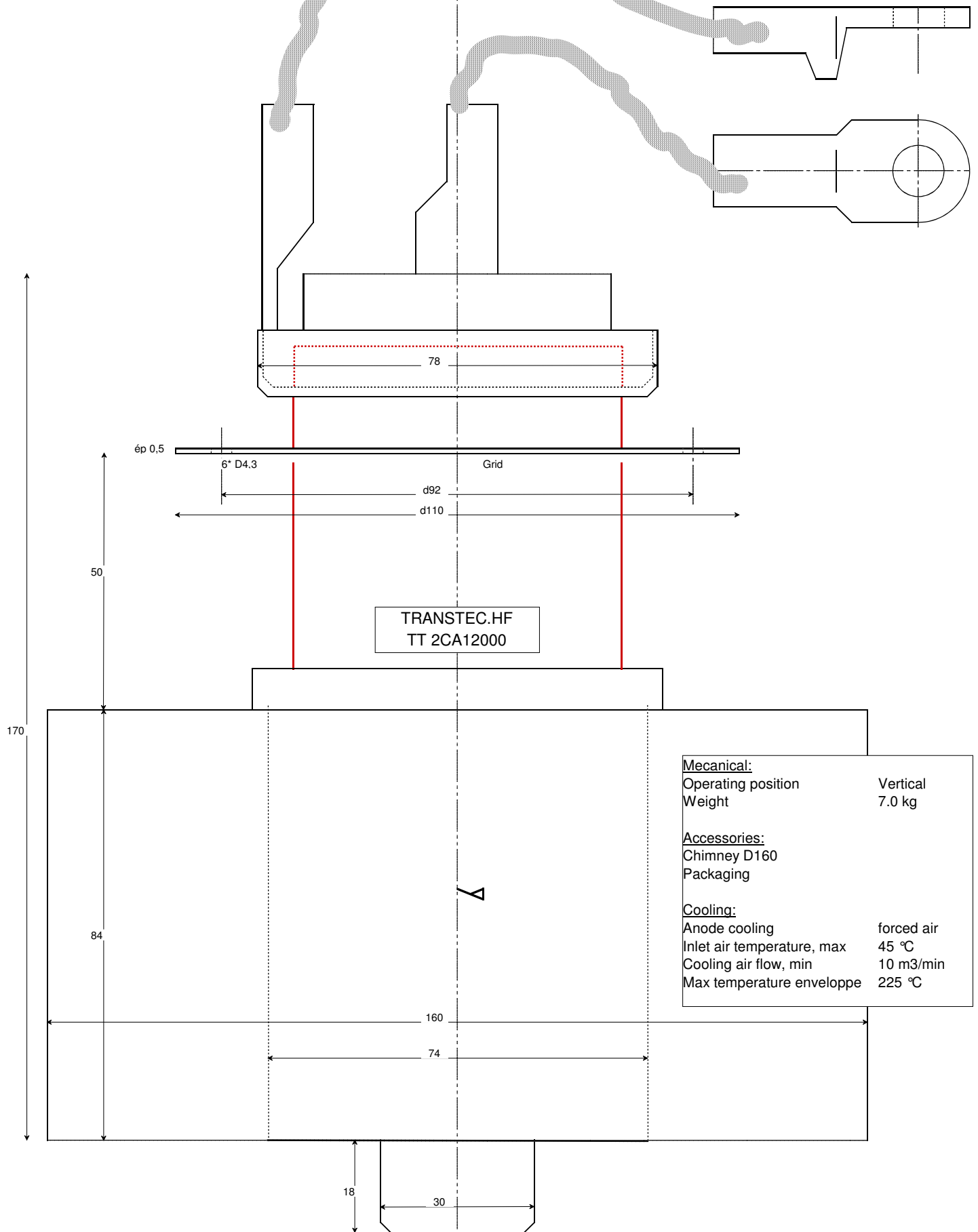
Equivalent Tubes:

ITK12
YD1170
YD1173
YD1175
8735



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TRIODE CA12000



Mecanical:	
Operating position	Vertical
Weight	7.0 kg
Accessories:	
Chimney D160	
Packaging	
Cooling:	
Anode cooling	forced air
Inlet air temperature, max	45 °C
Cooling air flow, min	10 m3/min
Max temperature envelope	225 °C