

# THERMAL COLUMN

Features:

- Highly thermalized neutron spectra
- Additional D<sub>2</sub>O-filled capsules can be installed to improve the neutron thermalization
- Rectangular cross-section 10 cm × 10 cm

Calculated properties at 250 kW:

	Neutron flux [ $\text{cm}^{-2}\text{s}^{-1}$ ] At the end of the tube	Neutron flux [ $\text{cm}^{-2}\text{s}^{-1}$ ] 30 cm away from the ending
Thermal (< 0.625 eV)	$6.84 \times 10^{10}$	$2.78 \times 10^{10}$
Epithermal (0.625 – $10^5$ eV)	$2.38 \times 10^9$	$3.94 \times 10^8$
Fast (> $10^5$ eV)	$4.20 \times 10^8$	$8.40 \times 10^7$
1 MeV equivalent	$4.16 \times 10^8$	$1.17 \times 10^8$
Total	$7.12 \times 10^{10}$	$2.82 \times 10^{10}$

