HEXT
HELIUM EXPANSION TURBINE

A small expansion turbine designed for the expansion of helium in the processes of gas liquefying in helium liquefiers

PBS Velka Bites
SINCE 1814

Basic technical information and main parameters

Main features

- Compact design according to the liquefier parameters
- Small device with cooling power from 50 W to 2,500 W
- High revolutions – up to 350,000 rpm
- Wide range of mass flow of helium from 4 g/s to 150 g/s
- Dynamic gas lubricated bearings
- Power consumed by water-cooled eddy-current brake
- Simple and accurate operation controlled by special control unit
- Possibility to use for other inert gases – nitrogen, argon, etc.
- Leakage-free, maintenance-free

Main parameters

TYPE	MASS FLOW	COOLING POWER	MAX. INLET PRESSURE	INLET TEMPERATURE	R.P.M. (MAX.)
	g/s	W	MPa	K	min^{-1}
HEXT 0.5	4 – 10	50 - 500	1.6	10 - 100	350,000
HEXT 1	6 – 25	150 - 1,000	1.6	10 - 100	350,000
HEXT 1.5	10 – 50	200 - 1,500	1.6	10 - 100	350,000
HEXT 2	15 - 150	300 - 2,500	1.6	10 - 100	350,000

Main references

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