



KELT-3b

Fast Facts:

TYPE

Hot Jupiter

RADIUS OF THE PLANET

17.6 R_E

MASS OF THE PLANET

617 ± 105 M_{EARTH}

ORBITAL PERIOD

2.70339 days

DISTANCE TO HOST STAR

0.048 au

DENSITY

0.63 g cm⁻³

DISCOVERED

2012 by the KELT survey

CHARACTERISTICS

puffy and gaseous

COMPOSITION

gaseous

TEMPERATURE

1543⁺³⁷₋₃₉ °C



Known as **KELT-3b**, the third exoplanet found by the KELT survey, this exoplanet is unlike anything we have seen in our Solar System.

Cheops observed this mysterious exoplanet on the **22 January 2023** at **23:20 CET**. By analysing the data, we have discovered that KELT-3b is...

close to its star. It has short orbital period. Its proximity to the star prevents it to have liquid water on its surface.

In comparison to the planets in the Solar System, KELT-3b...

It is bigger than the planets of our Solar system, closer to the Sun. Even though it is comparable to Jupiter, it has lower density.

KELT-3 is a sun like star 690 light years away from Earth in the Leo constellation. KELT-3 is slightly bigger than our Sun.

Mass of the star = **1.96 ± 0.50 M_{Sun}**

Radius of the star = **1.70 ± 0.12 R_{Sun}**