What is claimed is:

1. A tube sheet built-in type structure suitable for a heat exchanger, the heat exchanger comprises a housing, wherein, the tube sheet built-in type structure comprising a tube sheet, the tube sheet is provided inside the housing and is not in direct contact with the housing;

a tubular structure that passes through the housing, one end of the tubular structure is located outside the housing, and other end of the tubular structure is located inside the housing and connected to the tube sheet;

wherein the heat exchanger has a central cylinder, the tube sheet is perpendicular to an axis of the central cylinder, or the tube sheet is parallel to the axis of the central cylinder, or there is an angle between the tube sheet and the axis of the central cylinder;

further comprising: a supporting rod, wherein one end of the supporting rod is fixedly connected to the tube sheet, and other end of the supporting rod is fixedly connected to the central cylinder.

2. The tube sheet built-in type structure of claim 1, wherein the tube sheet comprising: a plate-shaped structure and a first annular structure integrally set on the outer edge of the plate-shaped structure, wherein the first annular structure is provided on one side of the plate-shaped structure.

3. The tube sheet built-in type structure of claim 1, wherein the

tubular structure comprises: a conical portion connected to the tube sheet, a straight portion connected to the conical portion, and a joint connected to the straight portion, an end of the conical portion which has a larger inner diameter is connected to the tube sheet, and an end of the conical portion which has a smaller inner diameter is connected to the straight portion.

4. The tube sheet built-in type structure of claim 1, wherein the tubular structure comprises: a first straight portion connected to the tube sheet, a conical portion connected to the first straight portion, a second straight portion connected to the conical portion, and a joint connected to the second straight portion, wherein an inner diameter of the first straight portion is larger than an inner diameter of the second straight portion.

5. The tube sheet built-in type structure of claim 4, wherein, the inner diameter of the first straight portion is constant, and the outer diameter of the first straight portion is variable.

6. The tube sheet in-built type structure of claim 1, further comprising: a supporting rod, one end of the supporting rod is rotatably connected to the tube sheet, and other end of the supporting rod is movable only in a first direction parallel to a plane in which the tube sheet is located;

or, one end of the supporting rod is rotatably connected to the tube

sheet, and other end of the supporting rod is movable only in a second direction orthogonal to a plane in which the tube sheet is located.

7. A spiral-flow type wound tube heat exchanger, comprises one or more of the tube sheet in-built type structures as claimed in any one of claims 1 to 6.