



## TECHNICAL AND MANUFACTURING FEATURES OF “CLASS” SERIES STAINLESS STEEL TOWEL-WARMING RADIATORS

**CLASS** series stainless steel towel-warming radiators are manufactured using “state-of-the-art” methods.

Raw materials are purchased on the market according to strict specifications that take into account their aptitude to undergo further manufacturing processes so as to guarantee the durability and consistency of the aesthetic and functional features of the end product. The material used is austenitic stainless steel AISI 304 that, together with a considerable resistance to corrosion, provides excellent polishing features. The pipe bars that we purchase are already highly finished and are supplied individually packaged to our plant.

Cutting and drilling processes are performed on automatic centres that are especially customised to obtain the necessary production capacity with the right tolerances and, at the same time, to avoid producing residual stresses or minor damages in the semi-finished product that would prejudice its final aspect.

Heating elements and collectors are plugged at the ends using TIG welding without any especially shaped plug. Heating elements and collectors are coupled using resistance welding, which joins metal parts by melting their basic materials without the need for weld material. The thermal source is represented by the joule effect resulting from the passage of current between the electrodes, together with the mechanical effect resulting from the pressure exerted by the electrodes themselves.

Following dimensional controls, the radiator surface finishing phase begins. It consists of mechanical polishing or butter finishing, which is obviously more intense in welded areas, while the entire radiator surface undergoes a lighter process to even the finishing of the manufactured product.

At the end of the cycle, the radiator is tested to check its water tightness according to EN 442, before proceeding to packaging.

The **CLASS** series stainless steel radiator is a truly unique product because, unlike other products, it has no applied surface finishing layers, but it takes advantage of the corrosion resistance features and aesthetic aspect of its basis material: stainless steel.

INDUSTRIE PASOTTI S.p.A.

Technical Management