The Cooling Stations of ReduPET GmbH:

INNOVATION
TECHNOLOGY
CONSULTING

REDUPET

FOR RESOURCE EFFICIENCY

...a sustainable investment:

high-quality, proven, well thought-out and powerful, superior to the original

Overview

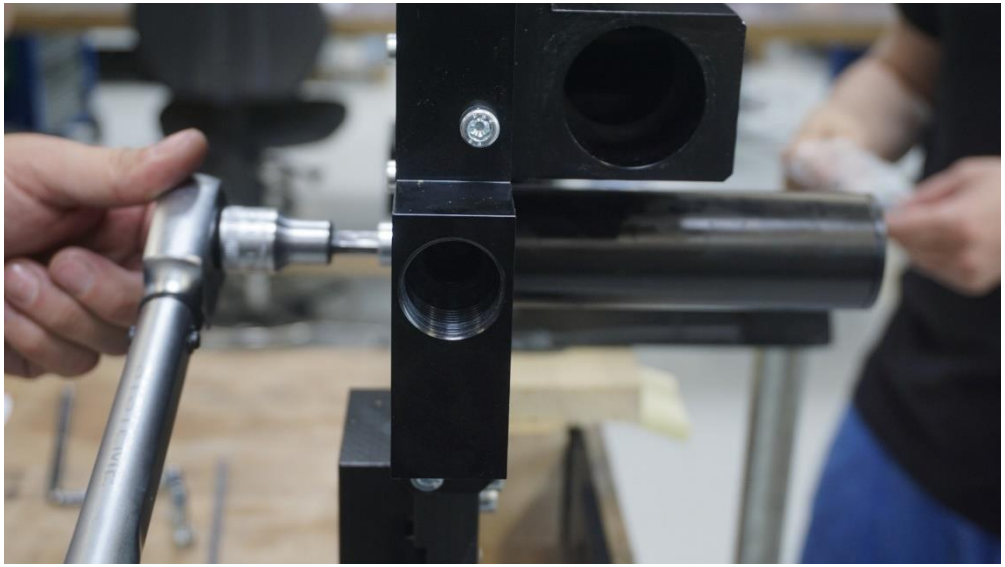
	Take-out cooling sleeves with intensive base cooling
	Simple installation of the cooling sleeves of the take-out gripper
	Surface treatment of the cooling block with wear-resistant and corrosion-resistant coating
	In case of damage: Exchange of cooling-sleeves in the cooling bloc possible
	Cooling Station prepared for options as Calitec/ Mint-Tec
	Supports of cooling-bloc made from colour treated aluminium
	Perfect contour design of cooling sleeves with more than 20 years of experience

Take-out cooling sleeves with intensive base cooling

Take-out cooling sleeves with intensive base cooling

A cooling channel which is serial drilled with the spiral channel in the bottom area ensures intensive cooling at the critical preform bottom (gate area) in order to minimise the formation of crystallinity in the cooling phase and to produce optimum preforms for the blowing process

Simple installation of the cooling sleeves of the take-out gripper



The cooling sleeves of the removal gripper cannot be removed directly in the machine with the original gripper. This takes several hours. With ReduPET's gripper, removal takes less than a minute with a single screw and in the machine!

Surface treatment of the cooling block with wear-resistant and corrosion-resistant coating

All aluminium parts of the entire cooling station are made corrosion-resistant and abrasion-proof by a special treatment. This means that the unit does not corrode and remains clean for years, which is necessary in the food industry.

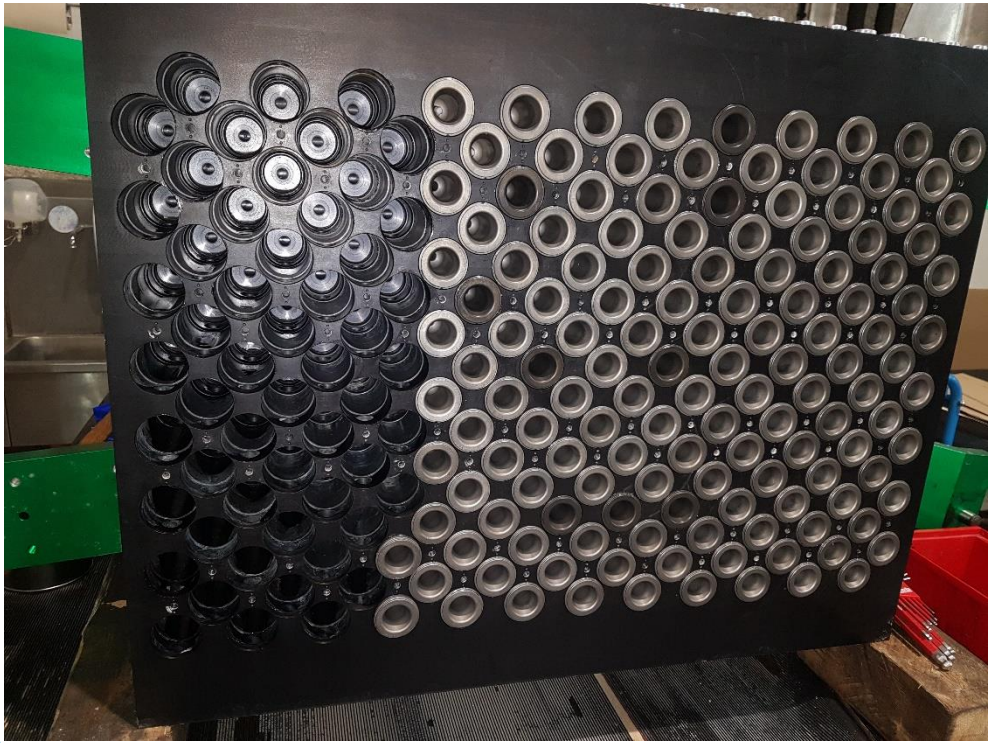
In case of damage: Exchange of cooling-sleeves in the cooling bloc possible

The cooling block in particular is treated INSIDE in all bores and channels. This means that the cooling water is not contaminated with oxidised aluminium, the cooling efficiency is maintained and cooling sleeves can be easily removed after years.

Exchange of Cooling Sleeves

A suitable removal aid, fitted with special materials, is supplied with each cooling block so that the cooling block sleeves can be easily removed from the cooling block without damage.

Exchange of Cooling Sleeves

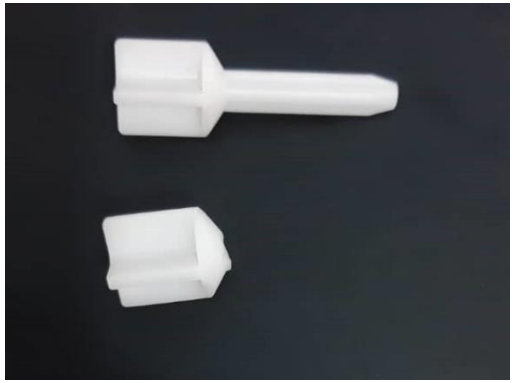


This example shows that the cooling sleeves could be removed from the two-year-old cooling block without any problems. This was done here for verification and control. This customer operates eight ReduPET GmbH cooling stations so far

Exchange of Cooling Sleeves

This example clearly shows how unprotected aluminium corrodes within a few months: If the cooling block is not treated, it corrodes to the same extent as the sleeve on the right in the picture. Due to the filigree structure, the sleeves can no longer be removed through the hard aluminium oxide, the cooling block is destroyed and leaks. The cooling water is heavily loaded and the cooling efficiency also decreases due to the oxide layer. The coating of the cooling block by ReduPET GmbH ensures sustainability.

Exchange of Cooling Sleeves



If the cooling sleeve is rusted in the cooling block, it can no longer be removed. This also applies to the POM valve. Once it is leaking or damaged, it cannot be replaced. This results in high costs due to air leakage!

Preparation of the Cooling Station for the Option of Mint-Tec©

All other parts of the cooling stations are also coated for the reasons mentioned. This coating is hard and abrasion-resistant, which provides very good protection, especially against corrosion.

Supports of Cooling-Bloc made from Colour treated Aluminium

The cooling block feet are also coated. They are milled from solid aluminium and allow for an abrasion-resistant, coloured coating that is sustainable for years.

Perfect contour design of cooling sleeves with more than 20 years of experience

ReduPET GmbH has more than 20 years of experience in cooling sleeve design for single-stage and two-stage production systems, an optimal basis for efficient cooling of preforms to achieve optimal cycle times.

ReduPET GmbH

Stefan Bock

Hauptstrasse 34

8750 Glarus

Switzerland

Telefon +41 55 650 14 07

Mobil +41 79 605 53 74

www.ReduPET.com