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## S 25 EC - T - C - 18 G ST Dispersing tool

/// Data Sheet

The autoclavable dispersing tool S 25 EC - T - C - 18 G - ST is suitable for general applications involving high speed and high shear mixing, crushing in liquid, emulsification, particle size reduction in solution and vigorous dissolving of miscible and immiscible solids and liquids in a liquid medium. It is particularly recommended for dispersing applications in the fields of biochemistry or pharmacy, e.g. to emulsify heat-sensitive intermediate APIs.

The sawtooth tool design enables slicing of fibrous materials in solution for even faster homogenization. The integrated temperature sensor enables temperature measurement during use. Operating time is logged through the associated disperser T 25 easy clean digital or control. An indication on the display informs the user that maintenance is required.



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As the name "easy clean" implies, the dispersing tools are particularly easy to clean: by simply turning and lowering the clamp, the shaft and rotor can be extended from the shaft until the whole rotor comes out of the stator. Then the shaft tube of the tool can be completely rinsed from inside.

Note: S 25 EC - T - C - 18 G is only compatible with the dispersers T 25 easy clean digital and control. The temperature sensing function of the T tools can only be activated when used in combination with the T 25 easy clean control.



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### Technical Data

Volume range (H <sub>2</sub> O) [l]	0.01 - 1.5
Stator diameter [mm]	18
Rotor diameter [mm]	13.4
Gap between rotor and stator [mm]	0.25
allowable Speed max. [rpm]	25000
Circumferential speed max. [m/s]	17.5
Immersion depth [mm]	45 - 150
Shaft length [mm]	191
Material in contact with medium	AISI 316L, ceramic
pH range	2 - 13
Suitable for solvents	yes
Suitable for abrasive substances	yes
Temperature measuring range [°C]	0 - 125
Accuracy of temperature measurement [K]	±1
Working temperature max. [°C]	120
Sterilization methods	all methods except hot air
Ultimate fineness, suspensions [µm]	10 - 50
Ultimate fineness, emulsions [µm]	1 - 10
Weight [kg]	0.634

