



HIGH-TS CONCENTRATION

HIGH-TS CONCENTRATION TECHNOLOGY

TEC Square uses Artisan industries' Rototherm-E technology for its finisher applications. The equipment is extremely reliable and requires little maintenance. It provides much higher concentrations at lower product losses as competing technologies.



The High-TS Concentration process is especially interesting, when product quality matters. Or when the costs of the product is high and efficient operation is required. This process has many advantages:

- ◆ Less Product Losses - The main evaporator can work on lower concentrations.
- ◆ More aroma Addition. - A higher TS allows for more aroma addition, without compromising the final TS.
- ◆ Higher line Capacity. - Less water to evaporate in a dryer

HIGH-TS CONCENTRATION PLANT — KEY POINTS

High quality machinery providing unique solutions. Possibilities exist to concentrate up to 60-70% TS with hardly any product losses.

CIP is more simple as for other evaporators.



The largest (20-m2) Rototherm-E® from Artisan Industries

SPECIFICATIONS AND ADVANTAGES

	TEC Square Technology High-TS Concentration	Advantages
Product Concentration technology	TEC Square uses Rototherm-E technology as a finisher. This evaporator gives easily concentrations after aroma addition for spray drying of 60%.	<ul style="list-style-type: none"> Very high concentrations are possible, 70% TS is no exception. Low temperatures are possible, avoiding damage to heat sensitive products. The fluid stream can contain small solid particles. Almost no product losses at high product concentrations.
Total Solids	A final concentration with very high TS is possible. Sometimes, it is even possible to go straight to powder.	<ul style="list-style-type: none"> High quality end-product. Direct in-line with the evaporation process. Less water in concentrate Less transport costs for liquid products
Instantaneous line capacity	High-TS evaporation can increase the overall line output as less water is available for the final drying operation.	<ul style="list-style-type: none"> Higher capacity Longer run times Less CIP required
Product Quality	High-TS Concentration decreases the water contents for the final process step and runs at low temperatures. Both give less quality loss.	<ul style="list-style-type: none"> Low temperatures Less water for drying gives less aroma losses
CIP	A Rototherm-E produces hardly any fouling. CIP is very simple, sometimes, a water run is sufficient.	<p>Short processing times allow for</p> <ul style="list-style-type: none"> Long run times Less CIP chemicals required Quick CIP Low product losses Efficient operation

TEC Square Project Management S.L.
Calle Sebastian Souviron 18, Ático 2
29005 Málaga, Spain
Tel : +34 664 389873

TEC Square Electrical B.V.
de Biestraat 18
4751 HC Oud Gastel
the Netherlands
Tel : +31 6 30894398

TEC Square Solutions Inc.
Robinland Business Center
Zeullig Avenue, North Reclamation Area
Mandaue City, Cebu, Philippines
Tel : +63 32 5205899

www.tecsq.com

