



SECTION ONE: PRODUCTS TO BE PRODUCED

The following products that have information will be produced by ERTANLAR.

PART ONE: SILICONE EMULSION PRODUCTION UNIT

1. SILICONE MIXER (2,00 M³)

Note: There may be changes in engine power and revolutions during manufacturing.

◆ Volume	Effective volume $\cong 2 \text{ m}^3$ Cylindrical volume $\cong 2,17 \text{ m}^3$ (Cylindrical Side) Total Volume $\cong 2,50 \text{ m}^3$ (Cylindrical Side and Bottom Dished End's)
◆ Dimension	$\varnothing 1500 \text{ mm} \times 1250 \text{ mm} \times 6 \text{ mm}$ (Cylindrical Side)
◆ Design Data ⁽¹⁾	
Shell Side	Working Pressure: ATM Design Pressure: 0,5 Barg Test Pressure: N/A Working Temp.: 60 °C Design Temp.: 160 °C Test Temp.: N/A
Jacket Side	Working Pressure: 4 Barg Design Pressure: 6 Barg Test Pressure: 11,1 Barg Working Temp.: 130 °C Design Temp.: 160 °C Test Temp.: AMB
	Pressure calculations will be made according to "EN 13445" standard.
◆ Construction	Upper Dished End "None - Open Type" thickness 2 mm, material AISI 304 L SS Bottom Dished End "Torispherical - DIN 28011" thickness 6 mm, material AISI 304 L SS Cylindrical part $\varnothing 1500 \text{ mm} \times 1250 \text{ mm} \times 6 \text{ mm}$, material AISI 304 L SS Shaft $\varnothing 80 \text{ mm}$, material AISI 304 L SS
◆ Heating & Cooling	
External	External Heating & Cooling half-pipe coils are on cylindrical shell and Bottom Dished ends. Each coil dimension is $\varnothing 76,1 \times 3 \text{ mm}$ Semi Tube and material is AISI 304 L SS. Tube pitch is 105 mm between each Semi - Tube, approximately $\cong 5,6 \text{ m}^2$ heat transfer area shell and bottom dished ends.
◆ Stirrer/ Agitator (1)	Parallel to the cylindrical body axis
Motor	7,5 kW 48 rpm ELK Motor and YILMAZ Geared Box / Not Ex-Proof
Agitator	
Sub Section	Anchor Type Impeller with Teflon Scraper (Qty. 1)
◆ Bearing	Ball bearing at the top, PTFE sleeve bearing at the bottom
◆ Sealing	N/A
◆ Stirrer/ Agitator (2)	Angled to the cylindrical body axis
Motor	30 kW 1500 rpm ELK Motor / Not Ex-Proof
Agitator	
Mid-Section	$\varnothing 300$ Saw Tooth Impeller (Qty. 1)
Sub Section	$\varnothing 300$ Saw Tooth Impeller (Qty. 1)
◆ Bearing	Ball bearing at the top
◆ Sealing	N/A
◆ Stirrer/ Agitator (3)	Parallel to the cylindrical body axis
Motor	7,5 kW 972 rpm ELK Motor / Not Ex-Proof
Agitator	
Mid-Section	$\varnothing 250$ Marine Type Impeller (Qty. 1)

سلام نکته مهم هماهنگی سه الکترو موتور دستگاه باهم میباشد که الکترو موتور اول با دور ۱۵۰۰ و الکترو موتور دوم با دور ۹۷۲ در ریز کردن اندازه ذرات موثر میباشد و الکترو موتور همزن پایینی با دور ۴۸ در توزیع یکسان اندازه ذرات موثر میباشد ضمناً با توجه به سرعت بالای دو همزن فوقانی و ایجاد ارتعاش بالا مرکز ثقل دستگاه طوری تعبیه و طراحی شده که دستگاه نمونه روئیت شده در حال کار، بدون هیچ لرزشی کار می کند.