

Datasheet

This product datasheet has been provided by
John Godrich in Partnership with VELP



OV5 Homogenizer

A stand alone solution for a wide range of applications

- Ergonomic design
- Quick and simple to use
- For volumes up to 8L (H₂O)



The OV5 homogenizer is the right solution for dispersing, homogenizing and mixing biological tissue samples (cells, animal and vegetal tissues), pharmaceutical products, cosmetics and food products. OV5 is a versatile instrument: it is possible to use only one shaft with different rotors and stators, for the specific application of the customer.

SHAFT

The OV5 homogenizer has only one shaft model suitable for all the applications and configurable with different models of rotors / stators. The shaft, thanks to the construction material stainless steel 316L and the PTFE sheath, grants a high resistance and durability.

ROTOR / STATOR PRINCIPLE

The rotor /stator system consists of a rotor which rotates at high speed within a stationary stator. The rotor and the stator have one or more rows of sharp-edged teeth. Because of the high rotor speed, the medium to be processed is automatically sucked axially into the dispersing head and is then pressed radially through the slots of the rotor-stator arrangement. The wide range of rotors / stators assure the most suitable solution for the different applications.

Features and Benefits

Choose the most suitable dispersing tool

Model	Code No	Application field	Function	Treatable volume (water) ml	Max circum. speed	Ø rotor mm	Ø stator mm	Tool length mm	Min/max immersion depth mm	Ultimate fineness µm	
										suspension	emulsion
*VSS2CSR2	A00000026	CE, IF, PC, SI	A	100 - 5000	22,7	15	20	220	40/175	10 - 50	1 - 10
VSS2CCR2	A00000027	CT, IA, IT, M, SI	B	100 - 5000	22,7	15	20	220	40/175	10 - 50	1 - 10
VSS2CMR2	A00000028	CE, VE	A	100 - 5000	22,7	15	20	220	40/175	10 - 50	1 - 10
*VSS2FER2	A00000029	CT, IF, SI, VE	C	100 - 5000	22,7	15	20	220	40/175	10 - 50	1 - 10
VSS2FCR2	A00000031	BT, CT, IA, IT, M, SI	B	100 - 5000	22,7	15	20	220	40/175	10 - 150	1 - 10
VSS2FMR2	A00000032	CE, CT, IA, IC, PC, VE	A	100 - 5000	22,7	15	20	220	40/175	10 - 150	1 - 10
*VSS3CSR3	A00000033	CT, IA, IF, M, SI	A	100 - 8000	34,9	23	30	220	40/175	5 - 25	1 - 5
VSS3CCR3	A00000034	CT, IA, IF, M, SI	B	100 - 8000	34,9	23	30	220	40/175	5 - 25	1 - 5
VSS3CMR3	A00000035	CE, VE	A	100 - 8000	34,9	23	30	220	40/175	5 - 25	1 - 5
VSS3CMR2	A00000036	CE, IA, SI	D	250 - 20000	34,9	15	30	220	40/175	High speed mixer	
*VSS3FER3	A00000037	CT, IF, SI, VE	C	100 - 8000	34,9	23	30	220	40/175	5 - 25	1 - 5
VSS3FSR3	A00000038	CT, IF, SI, VE	A	100 - 8000	34,9	23	30	220	40/175	5 - 25	1 - 5
VSS3FMR3	A00000040	CE, IA, IC, IF, IT	A	100 - 8000	34,9	23	30	220	40/175	5 - 25	1 - 5
*VSS4CMR3	A00000041	CE, IA, SI	D	1000 - 40000	34,9	23	40	220	40/175	High speed mixer	
**VSS5CSR4	A00000046	BT, M	A	0,2 - 50	6,3	4	5	128	10/60	10 - 50	1 - 10

* Most used model

** The dispersing tool works with Ø 4 mm rotor and Ø 5 mm stator for microbiological applications (i.e. suitable for Eppendorf, cuvettes, etc.)

APPLICATION FIELD

BT BIOTECHNOLOGY
 CE CERAMIC INDUSTRY
 CH CHEMICAL INDUSTRY
 CT PAPER & TISSUE INDUSTRY
 IA FOOD INDUSTRY
 IC COSMETICS INDUSTRY
 IF PHARMA INDUSTRY
 IT TOBACCO INDUSTRY
 M MEDICINE

PC PETROCHEMISTRY INDUSTRY
 SI SEWAGE POLLUTION CONTROL
 VE PAINT INDUSTRY

FUNCTION

A DISPERSING TOOL FOR SOLID/LIQUID MEDIA
 B DISPERSING TOOL WITH KNIVES FOR FIBROUS/STRINGY
 C DISPERSING TOOL FOR W/O OR O/W EMULSIONS
 D STIRRING SHAFT

VS + S2C + SR2

Example model composition:
 VSS2CSR2



Shaft
VS



Stator
VS2C



Rotor
VSR2

Technical Data	Description
Construction material:	technopolymer
Stirring speed rpm:	graduated scale
Quick system for assembling and disassembling dispersing tools	
Power:	500 W
Power supply:	230 V / 50Hz
Weight:	1,3 Kg
Dimension (WxHxD):	70x9255x70 mm
Stirring speed:	from 10000 to 30000 rpm
Stirring volume max (H ₂ O):	up to 8 litres as homogenizer
Stirring volume max (H ₂ O):	up to 40 litres as high speed mixer
Max viscosity (mPa x sec):	10000
Order information	Description
Code No	
R20900010	OV5 Homogenizer

Your authorized agent:

We reserve the right to make technical alternations
 We do not assume liability for errors in printing, typing or transmission



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