OV5 Homogenizer

A stand alone solution for a wide range of applications
- Ergonomic design
- Quick and simple to use
- For volumes up to 8L (H_2O)

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 sheats, 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 lenght 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 KNIFES 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_2O):	up to 8 litres as homogenizer
Stirring volume max (H_2O):	up to 40 litres as high speed mixer
Max viscosity (mPa x sec):	10000
Order information Code No	**Description**
R20900010	OV5 Homogenizer

Your authorized agent:

VELP Scientifica srl
via Stazione 16
20040 Usmate (Milano) Italy
Tel +39 039 628811
Fax +39 039 6288120
inse@velp.it
www.velp.com