

IKA® High Pressure Homogenizer HPH

Fields of application

Food industry
Pharmaceutical industry
Cosmetics
Biotechnology
Environmental technology



HPH 2000/4-SH5

Micronizing with high pressure

With the high pressure homogenizer

HPH 2000/4

into the nano-range

A new module for the LABOR-PILOT

Homogenizing pressure up to 2.000 bar

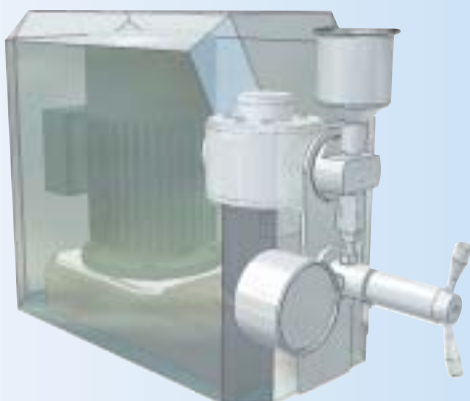
High efficiency and multi-purpose use

Variable flow rate via speed adjustment

Execution acc. to GMP



HPH 2000/4-DH5



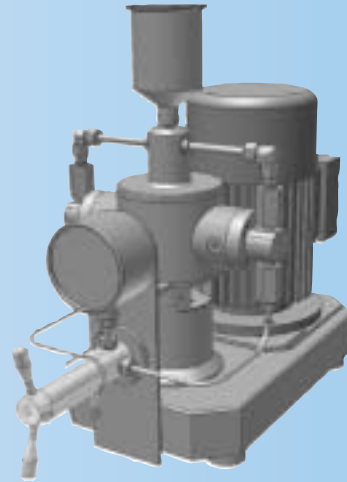
Examples for the use of high-pressure homogenizers:

Homogenizing of dairy products
Disintegration of cellulose in vegetables
Production of gel systems in the pharmaceutical industry
Emulsifying of lotions, creams and liposoms
Cell disintegration in the biotechnology
Production of micro emulsions
Production of infusorial solutions

IKA® High Pressure Homogenizer HPH

The functional principle of the HPH:

The **HPH 2000/4** consists of a high-pressure pump, driven by a special excenter. For higher flow rates and a pulsation free volume flow up to four high-pressure pumps may be used. Due to the reduction of cross-section in the high-pressure or homogenizing valve a high pressure is built up in front of the valve by the constant flow from the pump. The pressure is then relieved in a very narrow, adjustable gap of the valve, which causes highly turbulent streams resulting in the requested size reduction and mixing effects. The homogenizing pressure can be infinitely manual adjusted and read-off from a manometer.

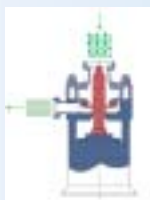


Drive power	1,5 kW
Min. working quantity	200 ml
Dimensions (L x W x H)	450 x 250 x 350 mm
Weight	approx. 40 kg
Piston diameter 5 mm:	
Max. homogenizing pressure	2.000 bar
Max. flow rate SH5 up to approx.	3 l/h
Max. flow rate DH5 up to approx.	6 l/h
Piston diameter 8 mm:	
Max. homogenizing pressure	800 bar
Max. flow rate SH8 up to approx.	7,6 l/h
Max. flow rate DH8 up to approx.	15,3 l/h

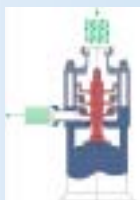


The series of LABOR-PILOT modules:

From low shear to ultra-high shear, from simple mixing to high-pressure homogenizing.
The modules of the LABOR-PILOT offer infinite possibilities!



UTL
homogenizing



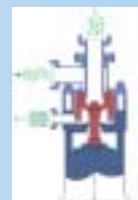
DR
dispersing



DRS
super fine
dispersing



MHD
continuous
powder
incorporation



CMS
discontinuous
powder
incorporation



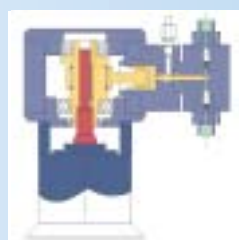
MK
wet milling



MKO
super fine
wet milling

New:
HPH

high-pressure
homogenizing



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