

MICCRA D-27

NEXT GENERATION HOMOGENIZING

THE NEW
HIGH END
HOMOGENIZER
FOR LAB & PILOT PLANT

The new high-end homogenizer, built for the highest requirements in research and development.

Its powerful 2.7 kW stainless steel three-phase asynchronous motor with up to 36,000 rpm delivers product results up to nanoscale, at a surprisingly low noise rate (63 dB(A)).

The patent-pending, unique cartridge sealing system (* in connection with the DFK-flow chamber) withstands also pressure and vacuum applications easily and is particularly hassle-free to maintain.

The perfect solution for the continuous operation in laboratory and pilot plant, hands down.



MICCRA D-27 with
*DFK 1.4 inline flow chamber

Optional: Safety type IP 65
Ex-proof
Pharmaceutical design

Curious?

Let us convince you of the benefits at
Tel. +49 (0)7634 / 357 300 or

www.miccra.com

MICCRA

UHS-RS TECHNOLOGY

Technical Data

MICCRA D-27 homogenizing drive

Motor type:	three phase asynchronous
Voltage:	185V 3~
Current:	max. 10,6 A
Torque:	max. 200 Ncm
Power:	max. 2700 W
Frequency:	50 - 400 Hz (600 Hz)
Speed regulation:	via frequency converter
Speed range:	3.000 - 24.000 rpm. (optional up to 36.000 rpm)
Housing type:	Stainless steel
Duty type:	S1 (continuous operation)
Safety class:	IP 54
Noise level:	≤ 63 dB(A)
Cooling type:	integrated water cooling circuit
Sealing air:	integrated compressed air supply
Sealing type:	lubricated-for-life spindle ball bearing
Dimensions:	112 x 112 x 442mm (WxHxD)
Weight:	9.5kg

DFK 1.4 inline flow chamber

Required drive: MICCRA D-27

Flow rate acc.

to water: dependent on tool and speed, between 1,8 up to 45l/min. (40F/EMR 40)

Max. perm. pressure: 20 bar

Max. perm vacuum: 1 mbar

Drive type: Directly driven without additional ball bearings

chamber in-/outlet: Clamp DN15, DIN 32676/Clamp 3/4", ISO 2852

Process type: InLine operation

Chamber volume: Dependent on used tool (10-30 ml)

Tools: compatible from 20mm up to 40mm stator diameter

Material: AISI 316L (1.4404)

Required accessories:

Stator — optionally: 20F / 20G / 30F / 30 G / 40F / 40G / 40 SF

Rotor — optionally: SMIR/EMR/SFEMR

HFU-27 high frequency converter

High frequency converter for MICCRA D-27 asynchronous drive
Compact and resistant table and / or mounted device with integrated digital display and short circuit monitoring. Use in the public mains supply by integrated PFC (Power Factor Correction).

Input (AC): 1x 115 to 1x230V 50/60Hz

Output (AC): 3x 0 to 220V

Power output: 3,8kVA (3,8kW)

Modulation: Pulse width modulation

Nominal current: 10A

Peak current: 28A

Safety type: IP 20

Ambient temp.: 5 to 40°C

Equipment: delivery with connector set

Operation type: S1 (continuous operation)

Dimensions: 120x275x220mm (HxWxD)

Weight: 4.9 kg

Interfaces:

4x digital-output, 1x analog-output (5V), 9x digital-input,
2x analog-input (10V), 1x pulse output - speed

Connections:

Motor connection: 6-pin lead-out terminal

USB connection: yes

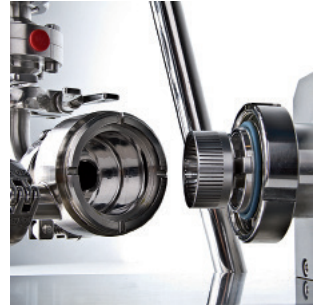
Power supply: On-/off switch on front

Controls:
LCD status display for displaying operational data such as: parameters, speed setpoint / actual, load indicator, active drive, error messages

LED status indicator: Ready, active load detector,
keypad for operation, drive selection and parameterization



Easy cleaning and maintenance



Standard high-polished tool components



Quick tool change



Flexible use of different rotor / stator configurations and sizes



Revolutionary sealing system in cartridge construction allows quick and easy replacement of the sealing lips