

MICCRA D-27

NEXT GENERATION HOMOGENIZING

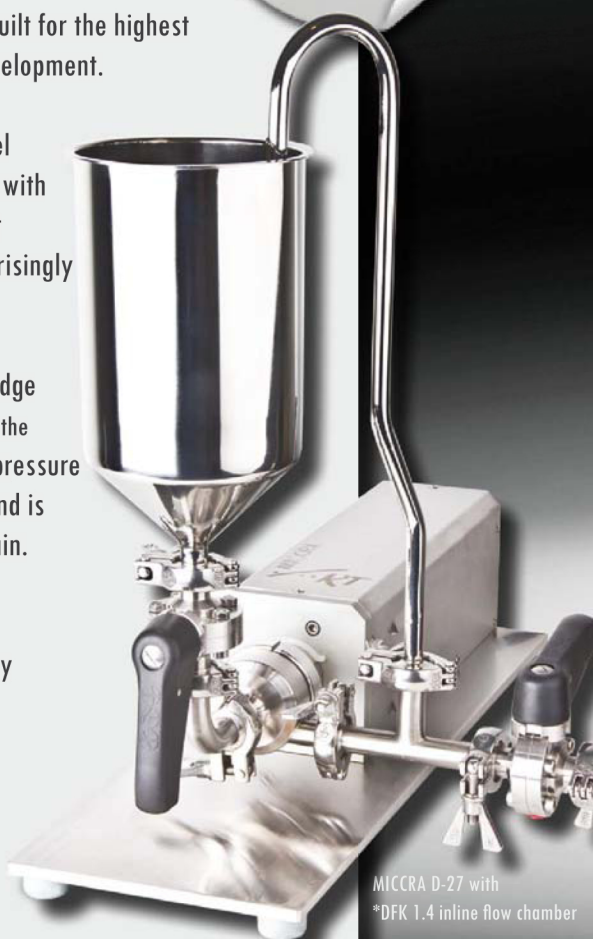
THE NEW
HIGH END
HOMOGENIZER
FOR LAB & PILOT PLANT

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



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Technical Data

MICCRA D-27 homogenizing drive

Motor type:	three phase asynchronous
Voltage:	185V 3~
Electricity:	max. 10,6 A
Torque:	max. 200 Nm
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
Drive type:	S1 (continuous operation)
Safety type:	IP 54
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: parameter, 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