

OVERHEAD STIRRER

2



WARRANTY
2
YEARS

ARGO LAB



AM 20-D

OVERHEAD STIRRER

Speed range: 50 ... 2200 rpm



- Speed indication;
- Accurate control of stirring speed;
- Adjustable safety circuit that automatically stops the motor in case of overtemperature.

AM 40-D PRO

OVERHEAD STIRRER

Speed range: 50 ... 2200 rpm



- Speed and torque indication;
- Accurate control of stirring speed;
- Effort control with automatic adjustment of speed;
- A protection system locks the agitator in case of excessive strain due to continuous overload;
- Adjustable safety circuit that automatically stops the motor in case of overtemperature so as to ensure extreme safety.

STIRRING ROD

TYPE 1

STEEL

TFE



Floating blades

The blades open as speed increases, generating downward axial flow.

Use: narrow-necked containers, like flasks.

TYPE 2

STEEL

TFE



Fixed blade

Axial downward flow.

Use: Use at medium to high speeds for swirling light solids, flocculations, mixing thickening agents, slurries, etc.

TYPE 3

STEEL

TFE



Helix

Axial flow with upward suction and localized appearance of shear forces.

Use: Use at medium to high speeds for swirling light solids, flocculations, mixing thickening agents, slurries, etc.

ACCESSORIES

THE ACCESSORIES ARE COMPATIBLE WITH BOTH MODELS



UNIVERSAL STAND

Supplied complete with fixing clamp.
Painted cast iron base and stainless steel rod.
Due to its special shape and strength, it avoids the need for counterweights.

Base mm 200 x 315, rod length mm 800 and diameter mm 18, weight kg 5.

p/n: 22005153



FIXING CLAMP

p/n: 22005413



BECKER SUPPORT

Strip system for attaching the vessel to the universal holder.
Maximum diameter approx. 30 cm.
Supplied complete with fixing clamp.

p/n: 22005423



REPLACEMENT SPINDLE

Through-rod chuck.
Quick, manual opening and clamping without the need for any tools.

p/n: 22005403



To select the right rod check for these parameters:
• **Stirrer poer** • **Sample volume** • **Sample viscosity**

TYPE 4

STEEL

TFE



3 hole blade

Tangential flow with reduced turbulence and gentle product mixing.

Use: Use at medium-low speed where good heat exchange of products to be mixed is needed.

TYPE 5

STEEL



Anchro blade

Tangential flow with high shear to external parts. Limits deposition of solids against container walls.

Use: low to medium speed homogenization of high solids in viscous liquids.

TYPE 6

STEEL



Toothed wheel blade

Rotary flow, effective in mixing very dense or viscous liquids.

Due to the toothing it can fragment granular sediments.



DATA SHEET

AM 20 D

AM 40 D PRO

Max amount in agitation (H2O)	20 l	40 l
Torque control	-	Si
Motor input power	60 W	120 W
Power motor output	50 W	100 W
Stirring speed	50... 2.200 rpm	50... 2.200 rpm
Agitation speed accuracy	±3 rpm	±3 rpm
Speed indication	LED Display	LCD Display
Reading accuracy	1 rpm	1 rpm
Max torque	40 Ncm	60 Ncm
Torque indication	-	Display LCD
Overload protection	LED alarm, auto-stop	LED alarm, auto-stop
Motor protection	-	LED alarm, auto-stop
Viscosity max [mPas]	10.000 mPa.s(*)	50.000 mPa.s(*)
Spindle opening	0,5... 10 mm	0,5... 10 mm
Dimension (L x A x P)	83 x 220 x 186 mm	83 x 220 x 186 mm
Weight	2,4 kg	2,4 kg
Power supply	220V - 50/60Hz	220V - 50/60Hz
Power consumption	70 W	130 W
IP protection	IP 21	IP 21
Temperature of use	5... 40 °C	5... 40 °C
Max use humidity	80 %	80 %
Part number	22005013	22005043



Upper passage hole for stirring rods

Description	Material	P/N	Rod dimensions			N° of blade	Speed interval	Viscosity
			Length mm	Blade size mm	Ø mm			
Type 1 floating blades	Steel	22005193	400	90	8	2	M-H	LL-L
	TFE	22005333	350	89				
Type 2 fix blade	Steel	22005173	400	60	8	1	M-H	LL-L-M
	TFE	22005313	350	70				
Type 3 helix	Steel	22005163	400	50	8	4	M-H	LL-L-M
	TFE	22005303	350	65				
Type 4 3 hole blade	Steel	22005183	400	68	8	1	L-M	L-M
	TFE	22005323	350	68				
Type 5 anchor	Steel	22005203	605	100	8	1	L - M	M - H
Type 6 toothed wheel	Steel	22005213	605	100	8	1	M - H	M - H

Viscosity	Sample
1	Water
5	Milk
10	Kerosene
100	Engine oil
1000	Castor Oil, Glycerin
7000	Refined honey
25000	Chocolate syrup
50000	Ketchup
100000	Molasses

Speed range rpm	
Low (L)	<250
Medium (M)	250-800
High (A)	>800

Viscosity range mPa·s	
Very Low (LL)	0-100
Low (L)	100-1000
Medium (M)	1000-10000
High (H)	10000-100000

Approximate viscosity values of different substances, expressed in centipoise (mPa·s) at 20°C



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