OVERHEAD STIRRERS

WARRANTY 2 YEARS

ARGO LAB

AM 20-D

OVERHEAD STIRRER

Speed range: **50 ... 2200 rpm**
Volume: **20 L** (H_2O)

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

AM 50-D PRO

OVERHEAD STIRRER

Speed range: **50 ... 2200 rpm**
Volume: **50 L** (H_2O)

- Speed and torque indication;
- **Timer and Buzzer** function (end of cycle);
- **Forward, reverse rotation**; intermittent mixing;
- **Effort control** with automatic speed adjustment; protection system in case of excessive effort and overload;
- **Safety circuit** (motor overheating lock);
- **Temperature probe** for real-time monitoring of the sample.

STIRRING ROD

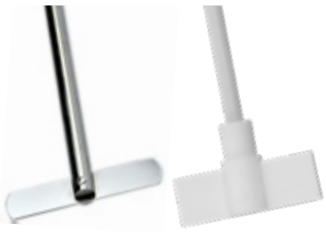
TYPE 1

STEEL TFE

Floating blades
The blades open as speed increases, generating downward axial flow.
Application: narrow-necked containers , e.g. flasks.

TYPE 2

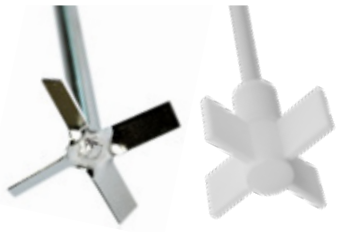
STEEL TFE



Fixed blade
Downward axial flow.
Application: 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.
Application: Use at medium to high speeds for swirling light solids, flocculations, mixing thickening agents, slurries, etc.

ACCESSORIES

ACCESSORIES ARE COMPATIBLE WITH BOTH MODELS

UNIVERSAL HOLDER

Supplied with fixing clamp.
Painted cast iron base and stainless steel rod.
Thanks to the special shape and robustness, 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 spindle.
Quick and manual opening and clamping no tools required

p/n: **22005403**

To select the right rod check for these parameters:

- **Stirrer power**
- **Sample volume**
- **Sample viscosity**

TYPE 4

STEEL TFE

3-hole blade
Tangential flow with reduced turbulence and gentle product mixing.
Application: Use at medium-low speed where good heat exchange of products to be mixed is needed.

TYPE 5

STEEL

Anchor blade
Tangential flow with high shear to external parts. It limits deposition of solids against container walls.
Application :low and medium speed homogenization of high solids in viscous liquids.

TYPE 6

STEEL

Cogwheel loader
Rotary flow, effective in mixing very dense or viscous liquids.
Due to its teeth, it can fragment granular sediments.

DATA SHEET	AM 20 D	AM 50 D PRO
Max amount in agitation (H2O)	**20 L**	**50 L**
Torque indication and control	-	Yes
Motor input / output power	60 W / 50 W	120 W / 100 W
Timer function	-	1 min ... 99 h:59 min
Stirring speed	50... 2200 rpm	50... 2200 rpm
Stirrini mode	Forward	Forward / Reverse/ Intermittent
Speed indication	LED Display	LCD Display
Connectivity	-	RS485, Type C, USB
Max torque	40 N*cm	60 N*cm
External temp. probe	-	0...100°C - PT1000 (on request)
Overload protection	LED alarm, auto-stop	LED alarm, auto-stop
Engine protection	-	LED alarm, auto-stop
Max viscosity [mPas]	10.000 mPa.s (*)	50.000 mPa.s (*)
Spindle opening	0,5... 10 mm	0,5... 10 mm
Dimensions (W X H x D)	83 x 220 x 186 mm	101 x 270 x 264 mm
Weight	2,4 kg	5,2 kg
Power supply	220V – 50/60Hz	220V – 50/60Hz
Power consumption	70 W	130 W
IP protection	IP 21	IP 21
Operating temperature	5... 40 °C	5... 40 °C
Max operating humidity	80 %	80 %
Part number	**22005013**	**22005053**

Upper passage hole for agitation

Description	Material	P/N	Rod dimensions			N°of blade	Speed interval	Viscosity
			Lenght mm	Blade size mm	Ø mm			
Type 1 floating loaders	Steel	**22005193**	400	90	8	2	M-H	LL-L
	TFE	**22005333**	350	89				
Type 2 fixed loaders	Steel	**22005173**	400	60	8	1	M-H	LL-L-M
	TFE	**22005313**	350	70				
Type 3 propeller loader	Steel	**22005163**	400	50	8	4	M-H	LL-L-M
	TFE	**22005303**	350	65				
Type 4 3 hole loader	Steel	**22005183**	400	68	8	1	L-M	L-M
	TFE	**22005323**	350	68				
Type 5 anchor loader	Steel	**22005203**	605	100	8	1	L - M	M - H
Type 6 cogwheel loader	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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