

STIRRERS, OVERHEAD



CG-2021

CG-2021 STIRRER, ARROW, LIGHT TO MEDIUM DUTY, DIRECT DRIVE

Variable high speed stirrer is ideal for light to medium-light viscosity fluids. The totally enclosed non-ventilated motor, keeps corrosive fumes and dust out for a long and trouble free service life. The permanent magnet DC motor provides maximum constant torque through entire speed range. The eye level heavy cast aluminum control box is integrated with the motor and has an on/off switch along with a speed control knob. Stirrer is protected from overload with a manually resettable circuit breaker. Electric stirrer is supplied complete with a 9/16" Diameter x 10" long aluminum support rod, 6ft 3-wire grounded plug, and a 3/8" diameter x 12" long stirrer shaft having a 2-1/2" diameter stainless steel propeller.

Part Number	Speed Range (RPM)	Constant Torque (in-oz or in-lbs)	Motor (Hp)
CG-2021-01	0-6000	16.8 or 1.05	1/10



CG-2022

CG-2022 STIRRER, ARROW, MEDIUM DUTY, DIRECT DRIVE

Variable speed stirrer is a general purpose stirrer and will handle a wide range of applications. It is specifically designed to handle the more viscous materials. The totally enclosed non-ventilated motor, keeps corrosive fumes and dust out for a long and trouble free service life. The permanent magnet DC motor provides maximum constant torque through entire speed range. The eye level heavy cast aluminum control box is integrated with the motor and has an on/off switch along with a speed control knob. Stirrer is protected from overload with a manually resettable circuit breaker. Electric stirrer is supplied complete with a 9/16" Diameter x 10" long aluminum support rod, 6ft 3-wire grounded plug, and a 3/8" diameter x 12" long stirrer shaft having a 2-1/2" diameter stainless steel propeller.

Part Number	Speed Range (RPM)	Constant Torque (in-oz or in-lbs)	Motor (Hp)
CG-2022-01	0-2000	39 or 2.43	1/15



CG-2023

CG-2023 STIRRER, ARROW, HEAVY DUTY, DIRECT DRIVE

Variable speed stirrer is specifically designed for heavy duty viscous materials. The totally enclosed non-ventilated motor, keeps corrosive fumes and dust out for a long and trouble free service life. The permanent magnet DC motor provides maximum constant torque through entire speed range. The eye level heavy cast aluminum control box is integrated with the motor and has an on/off switch along with a speed control knob. Stirrer is protected from overload with a manually resettable circuit breaker. Electric stirrer is supplied complete with a 9/16" Diameter x 10" long aluminum support rod, 6ft 3-wire grounded plug, and a 3/8" diameter x 12" long stirrer shaft having a 2-1/2" diameter stainless steel propeller.

Part Number	Speed Range (RPM)	Constant Torque (in-oz or in-lbs)	Motor (Hp)
CG-2023-01	0-1000	117.6 or 7.35	1/10

STIRRERS, OVERHEAD

CG-2025 STIRRER, ARROW, AIR DRIVEN

Air driven stirrer for use whenever the use of an electrical stirrer might be hazardous or impractical. Ideal for mixing all types of solvents, lacquers and volatile chemicals without the possibility of spark ignition. Motor accepts air input line pressure from 35 to 1000 PSI and delivers up to 1/3 Hp @ 80 PSI. A needle valve controls the mixing speed while a muffler ensures quiet operation. Supplied complete with a 9/16" Diameter x 10" long aluminum support rod, 4ft length of air hose with double fittings for connection to air supply, and a 3/8" diameter x 12" long stirrer shaft having a 2-1/2" diameter S.S. propeller.

Part Number	Air Motor Type	Speed Range (RPM)	Constant Torque (in-lbs)	Gear Ratio
CG-2025-01	High Speed	200 to 10000	3.6	Direct
CG-2025-02	General Purpose	50 to 1200	18.0	7 to 1
CG-2025-03	High Torque	8 to 170	100.0	49 to 1

CONSTANT TORQUE VALUES GIVEN AT A PRESSURE OF 80 PSI.

PLEASE NOTE: FOR LONG AND TROUBLE-FREE LIFE OF YOUR AIR POWERED STIRRER, IT IS RECOMMENDED THAT THE AIR SUPPLY BE FILTERED TO REMOVE OIL AND WATER AEROSOLS AS WELL AS FOREIGN PARTICLES LARGER THAN 40 MICRONS. IN ADDITION, AN AUTOMATIC AIR LINE LUBRICATOR MUST BE INSTALLED IN THE AIR LINE JUST AHEAD OF THE MOTOR. FOR THESE ITEMS SEE LISTING BELOW.

CG-2025 STIRRER, AIR DRIVEN, PROCESS REACTOR

Air driven stirrer for use whenever the use of an electrical stirrer might be hazardous or impractical. Ideal for mixing all types of solvents, lacquers and volatile chemicals without the possibility of spark ignition. Motor delivers up to 3/8 Hp, 50 in-lb of torque, and 333 MAX RPM @ 80 PSI. A needle valve controls the mixing speed. Motor shaft size is 1/2" OD. Supplied complete with 4ft length of air hose with double fittings for connection to air supply.

Part Number	Air Motor Type	Speed Range (RPM)	Constant Torque (in-lbs)	Gear Ratio
CG-2025-20	Process Reactor	50 to 333	50	50

CONSTANT TORQUE VALUES GIVEN AT A PRESSURE OF 80 PSI.

PLEASE NOTE: FOR LONG AND TROUBLE-FREE LIFE OF YOUR AIR POWERED STIRRER, IT IS RECOMMENDED THAT THE AIR SUPPLY BE FILTERED TO REMOVE OIL AND WATER AEROSOLS AS WELL AS FOREIGN PARTICLES LARGER THAN 40 MICRONS. IN ADDITION, AN AUTOMATIC AIR LINE LUBRICATOR MUST BE INSTALLED IN THE AIR LINE JUST AHEAD OF THE MOTOR. FOR THESE ITEMS SEE LISTING BELOW.

CG-2025 FILTER-REGULATOR-LUBRICATOR FOR AIR STIRRERS

Combination unit features a filter, regulator and lubricator with 1/4" NPT fittings. Regulator has a 1-1/2" diameter gauge that reads from 0 to 160 PSI. Filter element removes particles down to 40 microns in size. The lubricator can be adjusted to feed one drop of oil for every 50-70 CFM of air going through the stirrer (approx 1 drop every 5 minutes). A detergent SAE #10 engine oil is recommended.

Part Number	Description
CG-2025-10	Filter-Regulator-Lubricator, Complete

Replacement Components:

Part Number	Description
CG-2025-HO	Hose Assembly, 4ft



CG-2025-02



CG-2025-20



CG-2025-10

STIRRERS, OVERHEAD



CG-2034

CG-2034 CHEMGLASS DIGITAL OVERHEAD STIRRER

Powerful overhead stirrer (130 watts) for high viscosity stirring with microprocessor controlled constant speed. Analog interface for recording speed and torque into Chemglass data logger (optional cord required). Stirrer has a RS-232 interface and is supplied with cord. For connection to glass shafts see CG-2043 and CG-2044 Tru-Stir™ stirrer shaft couplings. Supplied with an 8" long support rod. **PLEASE NOTE: FOR SHORTER LENGTH SUPPORT RODS SEE CG-2034-40 AND -41.**

Specifications:

Dimensions W x D x H (mm):	80 x 190 x 205
Weight (lbs):	8
H ₂ O Stirring Capacity (L, Gallons):	40, 10
Suitable for Viscosity to (CPS):	50,000
Speed Range (RPM):	50-2000
Speed Variation Under Changing Load (%):	2.0
Chuck Range (mm):	0.5 to 10
Maximum Torque on Chuck (Ncm):	60
Motor Rating Input/Output (Watts):	130/110

Part

<u>Number</u>	<u>Description</u>
CG-2034-01	Chemglass Digital Stirrer

Accessories:

Part

<u>Number</u>	<u>Description</u>
CG-2034-50	Analog Communications Cord (For Connection To Chemglass Data Logger)
CG-2034-41	Replacement S.S. Support Rod, 4" OAL
CG-2034-40	Replacement S.S. Support Rod, 6" OAL
CG-2034-45	5/16" OD X 12" Long #303 S.S. Rod For Connecting CG-2034-01 To A CG-2047 Flexible Drive Shaft

STIRRERS, OVERHEAD

CG-2032 STIRRER, DIGITAL OVERHEAD, TEMPSTIR™, CHEMGLASS

Unique Chemglass Tempstir™ incorporates the latest in brushless motor technology with a 7:1 planetary gear head. For its size, the motor provides **TWICE AS MUCH** power as many laboratory stirrers currently on the market. The separate digital motor controller now combines a built-in temperature monitor in one compact enclosure. RPM and torque are viewed on a blue backlit display, while the temperature reading is viewed on a red backlit display. The controller has both analog and RS485 digital interfaces. The motor connects to the controller via the attached 6ft cable with twist-lock connector. Supplied complete with 5/8" diameter x 8" long S.S. mounting rod and a 10ft coiled extension cord. **PLEASE NOTE: CG-2044 TRU-STIR COUPLING AND CG-3498 THERMOCOUPLE MUST BE PURCHASED SEPARATELY.**

Motor Features:

- 7:1 Planetary Gear Head Is Maintenance Free With Lifetime Lubrication
- Brushless DC Motor Produces 15 in-lbs Constant Torque and 33 in-lbs Peak Torque
- Compact Design Measures 2.25" L x 3.50" W x 6.75" H and Weights Only 5.8lbs
- Reversible Speed Constant Motor
- Linear Speed To Torque Curve and Closed Loop Speed Control
- Thermal Overload Protection Sensor
- Chemical Resistance Black Hard Coat Housing

Controller Features:

- Built-In Temperature Monitor Available In Type "T" (-50 To 250°C) and Type "K" (-200 To 1200°C)
- Separate Digital Display For RPM and Torque On Blue Display and Temperature On Red Display
- Unit Can Be Positioned Up To 6ft From Motor Making Operation Easier and More Convenient
- Compact Design Measures 6.75" L x 6.00" W x 6.00" H and Weights Only 5.25lbs
- Analog Output and RS485 Digital Interfaces Allow Several Features To Be Controlled and/or Monitored
- International Power Cords Available. Please Call For Details.

Specifications:

Motor Hp**1:	0.20
Speed Range (RPM):	50-500
Motor Shaft Size (mm):	12
Rated Torque (in-lbs):	15
Peak Torque (in-lbs):	33
Temperature Accuracy (°C)**2:	± 2
Controller Input Voltage**1:	90-264VAC, 50/60Hz, 4 Amps

Part Number	Description
CG-2032-01	Digital Overhead Stirrer, Separate Controller with Built In Temperature Monitor, Type "T"
CG-2032-02	Digital Overhead Stirrer, Separate Controller with Built In Temperature Monitor, Type "K"

Replacement Components:

Part Number	Description
CG-2032-10	Tempstir™ Stirrer Motor Only
CG-2032-30	Tempstir™ Digital Controller Only with Built-In Temperature Monitor, Type "T"
CG-2032-31	Tempstir™ Digital Controller Only with Built-In Temperature Monitor, Type "K"

**1: The Input Voltage Is Directly Proportional To The Available Output Torque Of The Motor.

**2: Accuracy Applies To RS485 And Actual Display Values Only. Analog Accuracy May Vary.



**BUILT-IN
TEMPERATURE
MONITOR**



CG-2032



STIRRERS, OVERHEAD



CG-2037-20

CG-2037 IKA® OVERHEAD STIRRERS

IKA®'s most popular mechanical and electronic stirrers.

RW 20 Digital Specifications:

Dimensions W x D x H (mm):	88 x 212 x 294
Weight (lbs):	6.8
H ₂ O Stirring Capacity (L, Gallons):	20, 5
Suitable for Viscosity to (mPas):	10,000
Speed Range (RPM):	60-2000
Chuck Range (mm):	0.5 to 10
Maximum Torque at Stirrer Shaft (Ncm):	150
Motor Rating Input/Output (Watts):	70/35

Ordering Information:

<u>Part Number</u>	<u>Description</u>
CG-2037-20	RW 20 Digital Stirrer with Stand and Clamp

RW 16 Basic Specifications:

Dimensions W x D x H (mm):	80 x 190 x 222
Weight (lbs):	6.2
H ₂ O Stirring Capacity (L, Gallons):	10, 2
Suitable for Viscosity to (mPas):	10,000
Speed Range (RPM):	40-1200
Chuck Range (mm):	0.5 to 10
Maximum Torque at Stirrer Shaft (Ncm):	40
Motor Rating Input/Output (Watts):	75/55

Ordering Information:

<u>Part Number</u>	<u>Description</u>
CG-2037-30	RW 16 Basic Stirrer Only



CG-2037-30