

designed for scientists



EUROSTAR 100 digital

/// Data Sheet

Powerful laboratory stirrer for highly viscous applications and intensive mixing for quantities up to 100 I (H2O). It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/30 - 1300 rpm. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

- Digital speed display
- Infinitely adjustable speed









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- Push-through agitator shafts
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display











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Technical Data

Motor rating input [W] 186 Motor rating output [W] 136 Motor principle Brushless DC Speed display 7 segment LED Speed range [rpm] 0/30 - 1300 Viscosity max. [mPas] 70000 Output max. at stirring shaft [W] 136 Permissible ON time [%] 100 Torque max. at stirring shaft [Ncm] 100 Speed adjustment stepless Setting accuracy speed [rpm] ±1 Deviation of speed measurement n < 300rpm [%] ±1 Deviation of speed measurement n < 300rpm [mm] ±3 Stirring element fastening chuck Chuck range diameter [mm] 0.5 - 10 Hollow shaft, inner diameter [mm] 11 Hollow shaft (push-through - when stopped) yes Fastening on stand extension arm Extension arm length [mm] 220 Speed control electronic Nominal torque [Nm] 1 Housing material alu-cast coating / thermoplastic polymer Dimensions (Wx H x D) [mm] 86 x 248 x 208 Weight [k	Stirring quantity max. per stirring position (H2O) [I]	100
Motor rating output [W] 136 Motor principle Brushless DC Speed display 7 segment LED Speed range [rpm] 0/30 - 1300 Viscosity max. [mPas] 70000 Output max. at stirring shaft [W] 136 Permissible ON time [%] 100 Torque max. at stirring shaft [Ncm] 100 Speed adjustment stepless Setting accuracy speed [rpm] ±1 Deviation of speed measurement n < 300rpm [%]		186
Speed display 7 segment LED Speed range [rpm] 0/30 - 1300 Viscosity max. [mPas] 70000 Output max. at stirring shaft [W] 136 Permissible ON time [%] 100 Torque max. at stirring shaft [Ncm] 100 Speed adjustment stepless Setting accuracy speed [rpm] ±1 Deviation of speed measurement n > 300rpm [%] ±1 Deviation of speed measurement n < 300rpm [rpm] ±3 Stirring element fastening chuck Chuck range diameter [mm] 0.5 - 10 Hollow shaft, inner diameter [mm] 11 Hollow shaft (push-through - when stopped) yes Fastening on stand extension arm Extension arm diameter [mm] 16 Extension arm length [mm] 220 Speed control electronic Nominal torque [Nm] 1 Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 86 x 248 x 208 Weight [kg] 3.9 Permissible ambient temperature [*C] 5 - 40		136
Speed range [rpm]	Motor principle	Brushless DC
Viscosity max. [mPas] 70000 Output max. at stirring shaft [W] 136 Permissible ON time [%] 100 Torque max. at stirring shaft [Ncm] 100 Speed adjustment stepless Setting accuracy speed [rpm] ±1 Deviation of speed measurement n > 300rpm [%] ±1 Deviation of speed measurement n < 300rpm [rpm]	Speed display	7 segment LED
Output max. at stirring shaft [W] 136 Permissible ON time [%] 100 Torque max. at stirring shaft [Ncm] 100 Speed adjustment stepless Setting accuracy speed [rpm] ±1 Deviation of speed measurement n < 300rpm [%]	Speed range [rpm]	0/30 - 1300
Permissible ON time [%] 100 10	Viscosity max. [mPas]	70000
Torque max. at stirring shaft [Ncm] Speed adjustment Setting accuracy speed [rpm] Deviation of speed measurement n > 300rpm [%] Evitation of speed measurement n < 300rpm [rpm] Stirring element fastening Chuck Chuck range diameter [mm] Hollow shaft, inner diameter [mm] Hollow shaft, inner diameter [mm] Hollow shaft, (push-through - when stopped) Fastening on stand Extension arm diameter [mm] Extension arm length [mm] Speed control Nominal torque [Nm] Housing material Dimensions (W x H x D) [mm] Be x 248 x 208 Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Frequency [Hz] Frequency [Hz]	Output max. at stirring shaft [W]	136
Speed adjustmentsteplessSetting accuracy speed [rpm]±1Deviation of speed measurement n > 300rpm [%]±1Deviation of speed measurement n < 300rpm [rpm]	Permissible ON time [%]	100
Setting accuracy speed [rpm] Deviation of speed measurement n > 300rpm [%] Estirring element fastening Chuck range diameter [mm] Hollow shaft, inner diameter [mm] Hollow shaft (push-through - when stopped) Fastening on stand Extension arm diameter [mm] Extension arm length [mm] Speed control Nominal torque [Nm] Housing material Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Frequency [Hz] Frequency [Hz]	Torque max. at stirring shaft [Ncm]	100
Deviation of speed measurement n > 300rpm [%] ±1 Deviation of speed measurement n < 300rpm [rpm] ±3 Stirring element fastening chuck Chuck range diameter [mm] 0.5 - 10 Hollow shaft, inner diameter [mm] 11 Hollow shaft (push-through - when stopped) yes Fastening on stand extension arm diameter [mm] 16 Extension arm length [mm] 220 Speed control electronic Nominal torque [Nm] 1 Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 86 x 248 x 208 Weight [kg] 3.9 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] 115 Frequency [Hz]	Speed adjustment	stepless
Deviation of speed measurement n < 300rpm [rpm]	Setting accuracy speed [rpm]	±1
Stirring element fastening Chuck range diameter [mm] Hollow shaft, inner diameter [mm] Hollow shaft (push-through - when stopped) Fastening on stand Extension arm diameter [mm] Extension arm length [m	Deviation of speed measurement n > 300rpm [%]	±1
Chuck range diameter [mm] Hollow shaft, inner diameter [mm] Hollow shaft (push-through - when stopped) Fastening on stand Extension arm diameter [mm] Extension arm length [mm] Speed control Nominal torque [Nm] Housing material Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 Voltage [V] Fastening 11 12 16 Extension arm 16 Extension arm 16 Extension arm 16 Extension arm 16 11 11 11 11 11 11 11 11 1	Deviation of speed measurement n < 300rpm [rpm]	±3
Hollow shaft, inner diameter [mm] Hollow shaft (push-through - when stopped) Fastening on stand Extension arm diameter [mm] Extension arm length [mm] 16 Extension arm length [mm] 220 Speed control Nominal torque [Nm] Housing material Dimensions (W x H x D) [mm] 86 x 248 x 208 Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 Voltage [V] Frequency [Hz]	Stirring element fastening	chuck
Hollow shaft (push-through - when stopped) Fastening on stand Extension arm diameter [mm] Extension arm length [mm] Speed control Nominal torque [Nm] Housing material Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 Voltage [V] Frequency [Hz] yes extension arm extension arm extension arm 16 220 Selectronic alu-cast coating / thermoplastic polymer 86 x 248 x 208 3.9 For 40 Permissible ambient temperature [°C] For 40 Protection class according to DIN EN 60529 IP 42 Voltage [V] 50/60	Chuck range diameter [mm]	0.5 - 10
Fastening on stand Extension arm diameter [mm] Extension arm length [mm] Speed control Nominal torque [Nm] Housing material Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 Voltage [V] Frequency [Hz] extension arm 16 84 820 220 Speed control alu-cast coating / thermoplastic polymer 86 x 248 x 208 3.9 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] Frequency [Hz]	Hollow shaft, inner diameter [mm]	11
Extension arm diameter [mm] Extension arm length [mm] Speed control Nominal torque [Nm] Housing material Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 Voltage [V] Frequency [Hz] 16 220 220 Selectronic alu-cast coating / thermoplastic polymer 86 x 248 x 208 3.9 5 - 40 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] 50/60	Hollow shaft (push-through - when stopped)	yes
Extension arm length [mm] Speed control Nominal torque [Nm] Housing material Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 Voltage [V] Frequency [Hz] 220 electronic alu-cast coating / thermoplastic polymer 86 x 248 x 208 3.9 5 - 40 80 Pr 42 Voltage [V] 115 Frequency [Hz]	Fastening on stand	extension arm
Speed controlelectronicNominal torque [Nm]1Housing materialalu-cast coating / thermoplastic polymerDimensions (W x H x D) [mm]86 x 248 x 208Weight [kg]3.9Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 42Voltage [V]115Frequency [Hz]50/60	Extension arm diameter [mm]	16
Nominal torque [Nm] Housing material Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 Voltage [V] Frequency [Hz] 1 alu-cast coating / thermoplastic polymer 86 x 248 x 208 3.9 5 - 40 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] 50/60	Extension arm length [mm]	220
Housing material Dimensions (W x H x D) [mm] 86 x 248 x 208 Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 Voltage [V] Frequency [Hz] alu-cast coating / thermoplastic polymer 86 x 248 x 208 3.9 5 - 40 80 IP 42 Voltage [V] 50/60	Speed control	electronic
Dimensions (W x H x D) [mm] 86 x 248 x 208 Weight [kg] 3.9 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] 115 Frequency [Hz] 50/60	Nominal torque [Nm]	1
Weight [kg] 3.9 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] 115 Frequency [Hz] 50/60	Housing material	alu-cast coating / thermoplastic polymer
Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] 115 Frequency [Hz] 50/60	Dimensions (W x H x D) [mm]	86 x 248 x 208
Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] 115 Frequency [Hz] 50/60	Weight [kg]	3.9
Protection class according to DIN EN 60529 IP 42 Voltage [V] 115 Frequency [Hz] 50/60	Permissible ambient temperature [°C]	5 - 40
Voltage [V] 115 Frequency [Hz] 50/60	Permissible relative humidity [%]	80
Frequency [Hz] 50/60	Protection class according to DIN EN 60529	IP 42
	Voltage [V]	115
Power input [W] 186	Frequency [Hz]	50/60
	Power input [W]	186





