

designed for scientists



EUROSTAR 40 digital

/// Data Sheet

Universal laboratory stirrer designed for simple stirring tasks for quantities up to 25 I (H2O). It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/30 - 2000 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











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

Scope of delivery

- •EUROSTAR 40 digital
- •Chuck key









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Technical Data

Motor rating input [W]	Stirring quantity max. per stirring position (H2O) [I]	25
Motor principle Brushless DC Speed display 7 segment LED Speed range [rpm] 0/30 - 2000 Viscosity max. [mPas] 30000 Output max. at stirring shaft [W] 84 Permissible ON time [%] 40 Torque max. at stirring shaft [Ncm] 40 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] 11 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] 0.4 Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 86 x 248 x 208 Weight [kg] 4.028 Permissible ambient temperature [°C] 5 - 40 <td>Motor rating input [W]</td> <td>118</td>	Motor rating input [W]	118
Speed display 7 segment LED Speed range [rpm] 0/30 - 2000 Viscosity max. [mPas] 30000 Output max. at stirring shaft [W] 84 Permissible ON time [%] 100 Torque max. at stirring shaft [Ncm] 40 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) extension arm Eastenision on stand extension arm Extension arm length [mm] 220 Speed control electronic Nominal torque [Nm] 0.4 Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 86 x 248 x 208 Weight [Rg] 5 - 40 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80	Motor rating output [W]	84
Speed range [rpm]	Motor principle	Brushless DC
Viscosity max. [mPas] 30000 Output max. at stirring shaft [W] 84 Permissible ON time [%] 100 Torque max. at stirring shaft [Ncm] 40 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] 0.4 Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 86 x 248 x 208 Weight [kg] 4.028 Permissible ambient temperature [*C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 42<	Speed display	7 segment LED
Output max. at stirring shaft [W] 84 Permissible ON time [%] 100 Torque max. at stirring shaft [Ncm] 40 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 length [mm] 16 Extension arm length [mm] 220 Speed control electronic Nominal torque [Nm] 0.4 Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 86 x 248 x 208 Weight [kg] 4.028 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] 230	Speed range [rpm]	0/30 - 2000
Permissible ON time [%] 100 10	Viscosity max. [mPas]	30000
Torque max. at stirring shaft [Ncm]	Output max. at stirring shaft [W]	84
Speed adjustmentsteplessSetting accuracy speed [rpm]±1Deviation of speed measurement n > 300rpm [%]±1Deviation of speed measurement n < 300rpm [rpm]±3Stirring element fasteningchuckChuck range diameter [mm]0.5 - 10Hollow shaft, inner diameter [mm]11Hollow shaft (push-through - when stopped)yesFastening on standextension armExtension arm diameter [mm]16Extension arm length [mm]220Speed controlelectronicNominal torque [Nm]0.4Housing materialalu-cast coating / thermoplastic polymerDimensions (W x H x D) [mm]86 x 248 x 208Weight [kg]4.028Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 42Voltage [V]230Frequency [Hz]50/60	Permissible ON time [%]	100
Setting accuracy speed [rpm]	Torque max. at stirring shaft [Ncm]	40
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] 0.4 Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 86 x 248 x 208 Weight [kg] 4.028 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] 230 Frequency [Hz]	Speed adjustment	stepless
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] 0.4 Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 86 x 248 x 208 Weight [kg] 4.028 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] 230 Frequency [Hz] 50/60	Setting accuracy speed [rpm]	±1
Stirring element fastening Chuck range diameter [mm] Dillow shaft, inner diameter [mm] Hollow shaft (push-through - when stopped) Fastening on stand Extension arm diameter [mm] Extension arm diameter [mm] Extension arm length [mm] Extension arm length [mm] Extension arm length [mm] Dipersion (low x H x D) [mm] Extension arm length [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 Frequency [Hz] Source Chuck 0.5 - 10 11 11 16 Extension arm E	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 Frequency [Hz] 0.5 - 10 11 11 12 11 11 16 Extension arm 6 extension arm 6 extension arm 16 6 extension arm 10 10 10 10 4 220 80 80 Protection class according to DIN EN 60529 Voltage [V] Frequency [Hz]	Deviation of speed measurement n &It 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] 0.4 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] 11 11 11 11 12 16 Extension arm 16 220 820 820 820 821 8220 82	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 Frequency [Hz] yes extension arm 16 220 920 920 921 922 922 924 925 927 928 929 929 929 929 920 920 920	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 Frequency [Hz] extension arm 16 220 220 electronic 0.4 alu-cast coating / thermoplastic polymer 86 x 248 x 208 4.028 5 - 40 Permissible relative humidity [%] 80 Frequency [Hz] 50/60	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 Frequency [Hz] 16 220 220 8lectronic 0.4 Au alu-cast coating / thermoplastic polymer 86 x 248 x 208 4.028 4.028 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] Frequency [Hz]	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 0.4 alu-cast coating / thermoplastic polymer 86 x 248 x 208 4.028 5 - 40 80 IP 42 Voltage [V] 50/60	Fastening on stand	extension arm
Speed control electronic Nominal torque [Nm] 0.4 Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 86 x 248 x 208 Weight [kg] 4.028 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] 230 Frequency [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] 0.4 alu-cast coating / thermoplastic polymer 86 x 248 x 208 4.028 9 4.028 1 5 - 40 80 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 4.028 80 IP 42 Voltage [V] 50/60	Speed control	electronic
Dimensions (W x H x D) [mm] 86 x 248 x 208 Weight [kg] 4.028 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] 230 Frequency [Hz] 50/60	Nominal torque [Nm]	0.4
Weight [kg] 4.028 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 42 Voltage [V] 230 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] 230 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] 230 Frequency [Hz] 50/60	0 1 01	4.028
Protection class according to DIN EN 60529 Voltage [V] Frequency [Hz] IP 42 230 50/60	Permissible ambient temperature [°C]	5 - 40
Voltage [V] 230 Frequency [Hz] 50/60	Permissible relative humidity [%]	80
Frequency [Hz] 50/60	Protection class according to DIN EN 60529	IP 42
	Voltage [V]	230
Power input [W] 118	Frequency [Hz]	50/60
	Power input [W]	118

