



NANOSTAR 7.5 digital

/// Data Sheet

The overhead stirrer NANOSTAR 7.5 digital is 30 % smaller than the MICROSTAR 7.5 digital and therefore even more space-saving. However, its performance remains the same. NANOSTAR 7.5 digital convinces with perfect basic functionalities, its compact design and is with just 0,8 kg easy to handle.

Constant torque

NANOSTAR 7.5 digital guarantees a constant torque over the entire rpm range from 50 - 2.000 rpm.

Ease of operation







designed for scientists

Operation takes place using a stable rotary knob. The display clearly shows the rotational speed.

Rapid updates

Regular software updates can be undertaken rapidly and simply via the USB interface.









designed for scientists

Technical Data

Stirring quantity max. per stirring position (H2O) [I] 5 Motor rating output [W] 32 Motor principle Brushless DC Speed display LED Speed range [rpm] 0/50 - 2000 Viscosity max. [mPas] 4000 Output max. at stirring shaft [W] 15.7 Permissible ON time [%] 100 Torque max. at stirring shaft [Ncm] 7.5 Speed cancrol Turning knob Setting accuracy speed [trpm] 1 Deviation of speed measurement n > 300rpm [±rpm] 3 Stirring element fastening chuck Chuck range diameter [mm] 0.5 - 8.2 Hollow shaft, inner diameter [mm] 8.5 Hollow shaft (push-through- when stopped) yes Fastening on stand extension arm Extension arm inalign [mm] 160 Nominal torque [Nm] 0.075 Timer display none Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 53 x 147 x 130 Weight [kg] 0.8 Permissible melatie	recillical Data	
Motor rating output [W] 22 Brushless DC Speed display LED	Stirring quantity max. per stirring position (H2O) [I]	5
Brushless DC LED Speed display LED Speed display USS Oxfoot	Motor rating input [W]	32
Speed display	Motor rating output [W]	22
Speed range [rpm] 0/50 - 2000 Viscosity max. [mPas] 4000 Output max. at stirring shaft [W] 15.7 Permissible ON time [%] 100 Torque max. at stirring shaft [Ncm] 7.5 Speed control Turning knob Setting accuracy speed [±rpm] 1 Deviation of speed measurement n × 300rpm [±rym] 3 Stirring element fastening chuck Chuck range diameter [mm] 0.5 - 8.2 Hollow shaft, inner diameter [mm] 8.5 Hollow shaft (bush-through - when stopped) yes Fastening on stand extension arm Extension arm diengthe [mm] 13 Extension arm length [mm] 160 Nominal torque [Nm] 0.075 Timer display none Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 53 x 147 x 130 Weight [kg] 0.8 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 54 USB interface yes Voltage [V]	Motor principle	Brushless DC
Viscosity max. [mPas] 4000 Output max. at stirring shaft [W] 15.7 Permissible ON time [%] 100 Torque max. at stirring shaft [Ncm] 7.5 Speed control Turning knob Setting accuracy speed [±rpm] 1 Deviation of speed measurement n > 300rpm [±rm] 3 Stirring element fastening chuck Chuck range diameter [mm] 0.5 - 8.2 Hollow shaft, inner diameter [mm] 8.5 Hollow shaft (push-through - when stopped) yes Fastening on stand extension arm diameter [mm] Extension arm length [mm] 160 Nominal torque [Nm] 0.075 Timer display none Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 53 x 147 x 130 Weight [kg] 0.8 Permissible ambient temperature [*C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 1P 54 USB interface yes Voltage [V] 100 - 240 <t< td=""><td>Speed display</td><td>LED</td></t<>	Speed display	LED
Output max. at stirring shaft [W] 15.7 Permissible ON time [%] 1000 Torque max. at stirring shaft [Ncm] 7.5 Speed control Turning knob Setting accuracy speed [±rpm] 1 Deviation of speed measurement n > 300rpm [±%] 1 Deviation of speed measurement n < 300rpm [±rpm]	Speed range [rpm]	0/50 - 2000
Permissible ON time [%]	Viscosity max. [mPas]	4000
Torque max. at stirring shaft [Ncm] Speed control Setting accuracy speed [±rpm] Deviation of speed measurement n > 300rpm [±w] Deviation of speed measurement n < 300rpm [±rpm] Stirring element fastening Chuck cange diameter [mm] Hollow shaft, inner diameter [mm] Hollow shaft, inner diameter [mm] Extension arm diameter [mm] Extension arm diameter [mm] Extension arm length [mm] Nominal torque [Nm] Nominal torque [Nm] Dimensions (W x H x D) [mm] Weight [kg] Permissible anabient temperature [*C] Permissible relative humidity [%] Protection class according to DIN EN 60529 USB interface Voltage [V] Dower input [W] Dower input [Output max. at stirring shaft [W]	15.7
Speed control Turning knob	Permissible ON time [%]	100
Setting accuracy speed [±rpm] 1 Deviation of speed measurement n > 300rpm [±%] 1 Deviation of speed measurement n < 300rpm [±rpm]	Torque max. at stirring shaft [Ncm]	7.5
Deviation of speed measurement n > 300rpm [±%] 1 1 1 1 1 1 1 1 1	Speed control	Turning knob
Deviation of speed measurement n < 300rpm [±rpm] Stirring element fastening Chuck range diameter [mm] D.5 - 8.2 Hollow shaft, inner diameter [mm] B.5 Hollow shaft (push-through - when stopped) Fastening on stand Extension arm diameter [mm] Extension arm length [mm] B.5 Extension arm length [mm] B.6 Extension arm length [mm] B.7 Extension arm length [mm] B.8 Extension arm length [mm] B.9 Exten	Setting accuracy speed [±rpm]	1
Stirring element fastening chuck Chuck range diameter [mm] 0.5 - 8.2 Hollow shaft, inner diameter [mm] 8.5 Hollow shaft (push-through - when stopped) yes Fastening on stand extension arm Extension arm diameter [mm] 13 Extension arm length [mm] 160 Nominal torque [Nm] 0.075 Timer display none Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 53 x 147 x 130 Weight [kg] 0.8 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 54 USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	Deviation of speed measurement n > 300rpm [±%]	
Chuck range diameter [mm] 0.5 - 8.2 Hollow shaft, inner diameter [mm] 8.5 Hollow shaft (push-through - when stopped) yes Fastening on stand extension arm Extension arm diameter [mm] 13 Extension arm length [mm] 160 Nominal torque [Nm] 0.075 Timer display none Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 53 x 147 x 130 Weight [kg] 0.8 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 54 USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	Deviation of speed measurement n < 300rpm [±rpm]	3
Hollow shaft, inner diameter [mm] 8.5 Hollow shaft (push-through - when stopped) yes Fastening on stand extension arm Extension arm diameter [mm] 13 Extension arm length [mm] 160 Nominal torque [Nm] 0.075 Timer display none Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 53 x 147 x 130 Weight [kg] 0.8 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 54 USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [VM] 32 Power input [VM] 32 Power input standby [W] 0.3 DC Voltage [V=]	Stirring element fastening	chuck
Hollow shaft (push-through - when stopped) yes	Chuck range diameter [mm]	0.5 - 8.2
Fastening on stand extension arm Extension arm diameter [mm] 13 Extension arm length [mm] 160 Nominal torque [Nm] 0.075 Timer display none Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 53 x 147 x 130 Weight [kg] 0.8 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 54 USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	Hollow shaft, inner diameter [mm]	8.5
Extension arm diameter [mm] 13 Extension arm length [mm] 160 Nominal torque [Nm] 0.075 Timer display none Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 53 x 147 x 130 Weight [kg] 0.8 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 54 USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	Hollow shaft (push-through - when stopped)	yes
Extension arm length [mm] 160 Nominal torque [Nm] 0.075 Timer display none Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 53 x 147 x 130 Weight [kg] 0.8 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 54 USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	Fastening on stand	extension arm
Nominal torque [Nm] 0.075 Timer display none Housing material alu-cast coating / thermoplastic polymer Dimensions (W x H x D) [mm] 53 x 147 x 130 Weight [kg] 0.8 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 54 USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	Extension arm diameter [mm]	13
Timer display Housing material Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] USB interface Voltage [V] Frequency [Hz] Power input [W] Power input standby [W] Dimensions (W x H x D) [mm] alu-cast coating / thermoplastic polymer 53 x 147 x 130 0.8 80 IF 5-40 IP 54 USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=]	Extension arm length [mm]	160
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 USB interface Voltage [V] Frequency [Hz] Power input [W] DC Voltage [V=] alu-cast coating / thermoplastic polymer 53 x 147 x 130 0.8 80 IP 54 USB 100 - 240 100 - 240 50/60 32 0.3 DC Voltage [V=]	Nominal torque [Nm]	0.075
Dimensions (W x H x D) [mm] 53 x 147 x 130 Weight [kg] 0.8 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 54 USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	Timer display	none
Weight [kg] 0.8 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 54 USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	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 54 USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	Dimensions (W x H x D) [mm]	53 x 147 x 130
Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 54 USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	Weight [kg]	0.8
Protection class according to DIN EN 60529 IP 54 USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	Permissible ambient temperature [°C]	5 - 40
USB interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	Permissible relative humidity [%]	80
Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	Protection class according to DIN EN 60529	IP 54
Frequency [Hz] 50/60 Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	USB interface	yes
Power input [W] 32 Power input standby [W] 0.3 DC Voltage [V=] 24	Voltage [V]	100 - 240
Power input standby [W] 0.3 DC Voltage [V=] 24	Frequency [Hz]	50/60
DC Voltage [V=] 24	Power input [W]	32
	Power input standby [W]	0.3
Current consumption [mA] 1300	DC Voltage [V=]	24
	Current consumption [mA]	1300







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