

# N 630.1.2 SERIES EXPLOSION PROOF PUMPS





#### **ADVANTAGES**

- High chemical resistance
- Durable even with difficult operating conditions
- High gas tightness up to
  5 x 10<sup>-5</sup> mbar x l/s as a standard
- Flameproof motor with intrinsically safe terminal box for simple installation
- .12 version with additional safety diaphragm for preventing gas from escaping through cracks in the working diaphragm

#### POSSIBLE AREAS OF USE

- Environmental monitoring especially in potentially explosive fields
- Process industry
- Chemical industry

- Energy technology
- Maritime especially for engine monitoring and emission measurement



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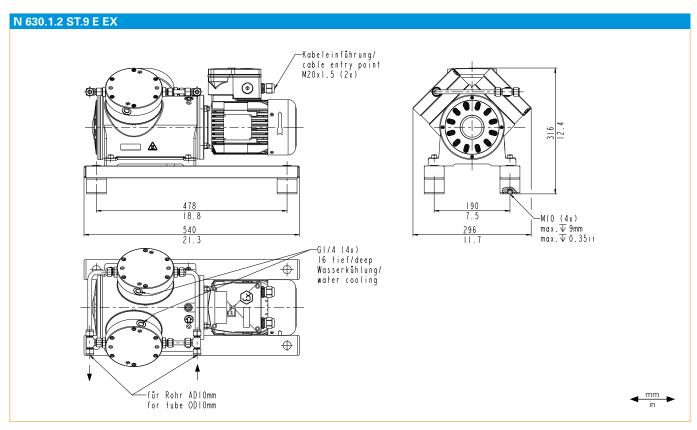
Series model	N 630.1.2 - 50 Hz Version		N 630.1.2 - 60 Hz Version	
Vlaterial design	ST.9 E Ex	ST.12 E Ex	ST.9 E Ex	ST.12 E Ex
Pump head	Stainless steel			
Diaphragm	PTFE-coated			
Valves	Stainless steel			
Flow rate at atm. pressure (I/min)	58.0		68.0	
Ultimate vacuum (mbar abs.)	120			
Max. operating pressure (bar rel./psig)	4.0/58.0	3.0/43.5	4.0/58.0	3.0/43.5
Permissible ambient temperature (°C)	+5 +40			
Permissible media temperature (°C)	+5 +40			
Gas tightness (mbar x l/s)	6 x 10 <sup>-3</sup>	5 x 10 <sup>-5</sup>	6 x 10 <sup>-3</sup>	5 x 10 <sup>-5</sup>
Weight (kg/lbs)	47.5/104.7	49.5/109.1	47.5/104.7	49.5/109.1
ELECTRICAL DATA				
Voltage (V)	230/400	200/346	220/380	277/480
Motor	Three-phase moto	or		
Protection class motor	IP 55			
Protection class pump	IP 20			
requency (Hz)	50	50/60	60	
Power P <sub>2</sub> (W)	370			
Explosion protection three-phase motor	Ex II 2G Ex de IIC	T4 Gb		
<sub>N</sub> (A), 50 Hz	1.65/0.95	1.92/1.11	-	
<sub>N</sub> (A), 60 Hz	-	1.8/1.04	1.73/1.0	1.44/0.83
Explosion protection pump parts	Ex II 2G Ex h IIB+	H2 T3 Gb		

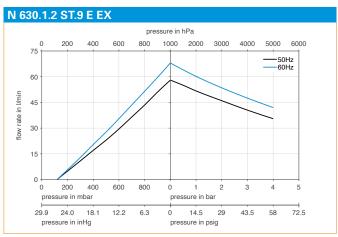
### N 630.1.2 ST.9 E EX

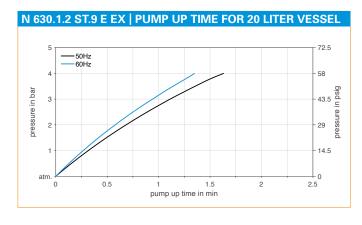
PERFORMANCE DATA				
Series model	Flow rate at atm. pressure (I/min)	Max. opera- ting pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)	
N 630.1.2 ST.9 E Ex - 50 Hz	58.0	4.0/58.0	120	
N 630.1.2 ST.9 E Ex - 60 Hz	68.0	4.0/58.0	120	

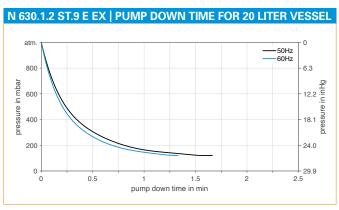
Flow rate determined at 20 °C, 1013 mbar abs.

(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)







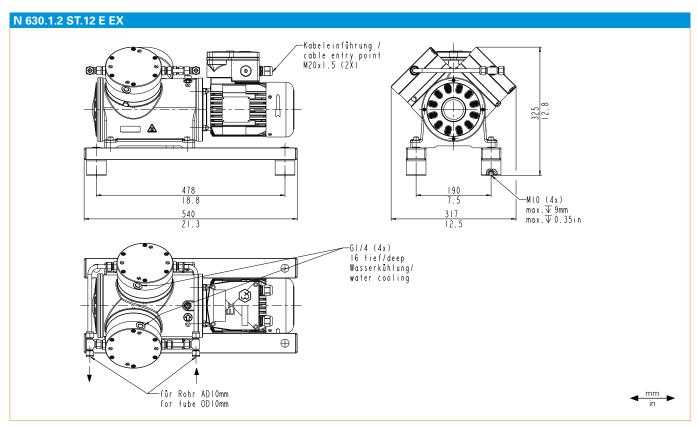


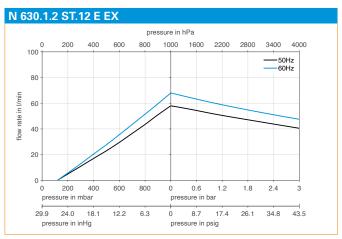
## N 630.1.2 ST.12 E EX

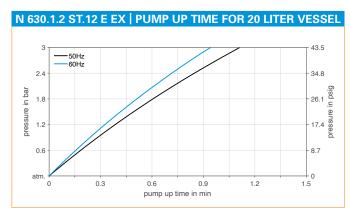
PERFORMANCE DATA				
Series model	Flow rate at atm. pressure (I/min)	Max. opera- ting pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)	
N 630.1.2 ST.12 E Ex - 50 Hz	58.0	3.0/43.5	120	
N 630.1.2 ST.12 E Ex - 60 Hz	68.0	3.0/43.5	120	

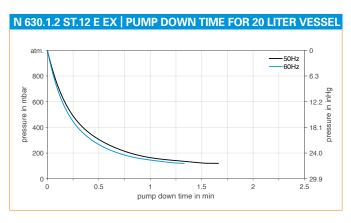
Flow rate determined at 20 °C, 1013 mbar abs.

(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)









OPTIONS		
Description	Illustration	Details
Mechanical adjustment of pumping capacity	FLOW	The pumping capacity can be adjusted at the factory to accommodate inlet pressure and for accurate alignment with the customer's system
Versions for special gases	CORROSION RESISTANT	Adjustment of the pump head for use with highly corrosive gases, for example with certain ozone or chlorine concentrations. Options include Hastelloy or PTFE pump head components or SilcoTek™ coating
Cleaned contact material parts	* Sagarana	For the use of the pump with gases with high oxygen concentrations the parts that come into contact with the medium can be cleaned using a certified process
Special coating	H	Special coatings for high corrosion protection (C4) for use in industrial areas and coastal areas with moderate salinity, such as maritime applications
Certified head components		The components that come into contact with the medium are available with material certificates
Country-specific Ex certificates	Ex	Pumps with certificates for NEC Ex, KOSHA, PESO, NEPSI and JIS are also available

SPARE PARTS	
Description	Part No.
Spare parts kit N 630.1.2 ST.9 E Ex	321882
Spare parts kit N 630.1.2 ST.12 E Ex	325527

The performance values for the series models shown on this data sheet were determined under test conditions. The actual performance values may differ and depend in particular on the usage conditions and therefore on the specific application, on the parameters of the components involved in the user's system and on any technical modifications carried out which deviate from the standard configuration or the as delivered condition.

If individual designs have been created for specific customers on the basis of series models, other technical performance data may apply.

Before operation begins, the relevant operating instructions and/or assembly or installation instructions should be read and the safety information contained in these instructions should be noted.

KNF reserves the right to make changes to the product and the associated documentation without prior notice to the customer.



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