

## N 630.15 SERIES PROCESS VACUUM PUMPS AND COMPRESSORS



### **ADVANTAGES**

- Durable even with difficult
- Ambient temperatures of up to

Modu/a

### POSSIBLE AREAS OF USE

Please visit our website www.knf.com to get more information

Series model	N 630.15 - 50 Hz Version		N 630.15 - 60 Hz Ve	N 630.15 - 60 Hz Version	
Material design	ST.9 E / ST.13 E	SP.9 E / SP.13 E	ST.9 E/ST.13 E	SP.9 E/SP.13 E	
Pump head	Stainless steel				
Diaphragm	PTFE-coated	EPDM	PTFE-coated	EPDM	
Valves	Stainless steel				
Flow rate at atm. pressure (I/min)	30.0		35.0	35.0	
Ultimate vacuum (mbar abs.)	70				
Max. operating pressure (bar rel./psig)	12.0/174.0				
Permissible ambient temperature (°C)	+5 +60 (+40 without water cooling)				
Permissible media temperature (°C)	+5 +60 (+40 without water cooling)				
Level of gas tightness (mbar x l/s) .9   .13	6x10 <sup>-3</sup> /5x10 <sup>-5</sup>				
Weight (kg/lbs)	55.0/121.0				

ELECTRICAL DATA					
Voltage (V)	230/400	200/346		220/380	277/480
Motor	Three-phase motor				
Protection class motor	IP 55				
Protection class pump	IP 20				
Frequency (Hz)	50	50 60		60	
Power P1 (W)	540	530		500	530
I <sub>N</sub> (A), 50 Hz	5.8/3.3	6.6/3.8		-	
I <sub>N</sub> (A), 60 Hz	- 5.6/3.2		3.5/2.0	3.7/2.1	

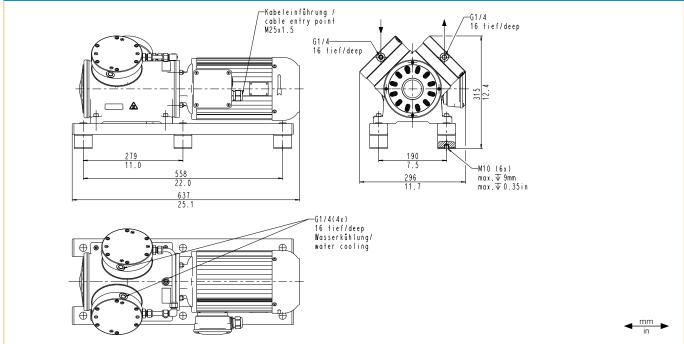
# N 630.15 ST.9 E | ST.13 E

PERFORMANCE DATA				
Series model	Flow rate at atm. pressure (I/min) <sup>1)</sup>	Max. operating pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)	
N 630.15 ST.9 E- 50 Hz	30.0	12.0/174.0	70	
N 630.15 ST.13 E- 50 Hz	30.0	12.0/174.0	70	
N 630.15 ST.9 E- 60 Hz	35.0	12.0/174.0	70	
N 630.15 ST.13 E- 60 Hz	35.0	12.0/174.0	70	

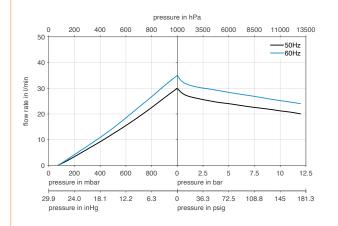
<sup>1)</sup> Flow rate determined at 20 °C, 1013 mbar abs.

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

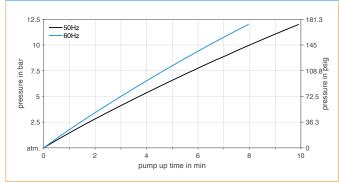
### N 630.15 ST.9 E | ST.13 E



#### N 630.15 ST.9 E | ST.13 E



#### N 630.15 ST.9 E | ST.13 E PUMP UP TIME FOR 20 LITER VESSEL



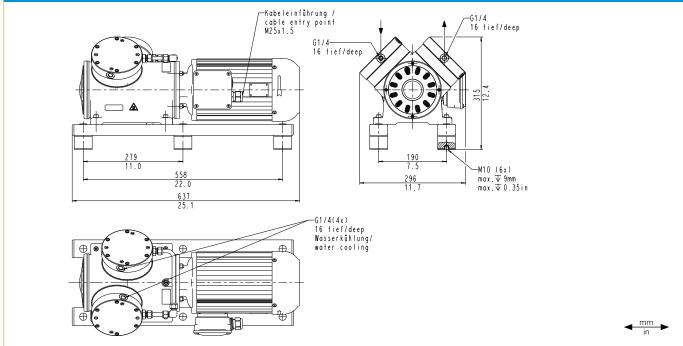
# N 630.15 SP.9 E | SP.13 E

PERFORMANCE DATA				
Series model	Flow rate at atm. pressure (I/min) <sup>1)</sup>	Max. operating pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)	
N 630.15 SP.9 E- 50 Hz	30.0	12.0/174.0	70	
N 630.15 SP.13 E- 50 Hz	30.0	12.0/174.0	70	
N 630.15 SP.9 E- 60 Hz	35.0	12.0/174.0	70	
N 630.15 SP.13 E- 60 Hz	35.0	12.0/174.0	70	

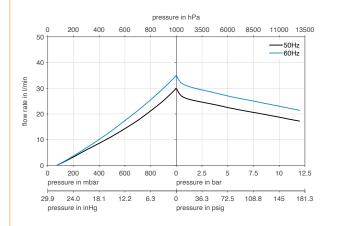
<sup>1)</sup> Flow rate determined at 20 °C, 1013 mbar abs.

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

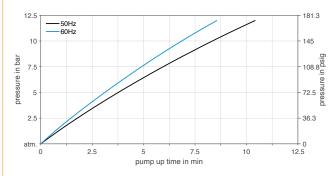
### N 630.15 SP.9 E | SP.13 E



#### N 630.15 SP9 E | SP.13 E







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.
Cleaned contact material parts	*	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	Ч Ч Д Ф С	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.
Special motors		Motors with special approval for maritime applications and motors with higher IP classification and insulation for tropical conditions are available on request.

Description	Illustration	Part No.
Connection water cooling device N 630.15 S9 E   S13 E	the second	310443
nlet filter		316661
Transport eyebolt	Î	311535
Wrench for retainer plate	1 0	321664
Retainer plate screw		314279
Corrugated hose for pneumatic connection; length 500 mm; G1/2"		333224
Corrugated hose, certified for pneumatic connection; length 500 mm; G1/2"		333226

SPARE PARTS			
Description	Illustration	Part No.	Details
Spare parts kit N 630.15 ST.9 E		321882	Spare parts kit consists of: 2x diaphragm, 4x reed valve, 4x valve stopper, 2x PTFE washer, 8x O-rings,4x screws. This set is required to maintain the pump.
Spare parts kit N 630.15 ST.13 E		321883	Spare parts kit consists of: 2x diaphragm, 4x reed valve, 4x valve stopper, 2x PTFE washer, 12x O-rings, 4x screws. This set is required to maintain the pump.
Spare parts kit N 630.15 SP.9 E		321879	Spare parts kit consists of: 2x diaphragm, 4x reed valve, 4x valve stopper, 8x O-rings, 4x screws. This set is required to maintain the pump.
Spare parts kit N 630.15 SP.13 E		321880	Spare parts kit consists of: 2x diaphragm, 4x reed valve, 4x valve stopper, 12x O-rings, 4x screws. This set is required to maintain the pump.

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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