

# TIC PUMPING STATION

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**TIC pumping stations are configurable with turbomolecular pump speeds ranging from 47 to 400  $l s^{-1}$  and a choice of oil sealed or dry backing pumps ranging from 1 to 20  $m^3 h^{-1}$ . They are supplied fully assembled and ready to run straight out of the box.**

All feature an integrated TIC turbo and instrument controller, offering full control of the package via a simple intuitive interface.

They also all come with common accessories such as mist filters and mains cables as appropriate to the chosen pumps.

As high end stations should: they include RS232 serial communications and Windows® software for monitoring and control.



## FEATURES AND BENEFITS

### User serviceable

nEXT turbo pumps and backing pumps are fully user serviceable: not only they are quick and easy to service, but this means an extended lifetime for your pumping station.

### Vent valve option

Optional turbomolecular pump vent valve can be ordered as part of cart assembly.



### Fully controllable

TIC turbo and instrument controller offers full control of pumps and up to 3 active gauges as well as full serial remote communications.

### Robust metal frame

All metal frame with locking castors for a robust but easily mobile system. Bench mounting kit included for safe bench top operation.

### Low vibration

Backing pump mounted on anti-vibration mounts for low levels of transmitted vibration. The ideal partner for both laboratory as well as light industrial settings.

# CUSTOMISE YOUR PUMPING STATION

Developed to provide a comprehensive vacuum solution with the latest technological advances for easy installation and operation.

## 1

Choose your turbopump: pumping speed from 84 to 400  $\text{ls}^{-1}$

and inlet flanges from DN40 to DN160.



nEXT85  
(84  $\text{ls}^{-1}$ )



nEXT240  
(240  $\text{ls}^{-1}$ )



nEXT300  
(300  $\text{ls}^{-1}$ )



nEXT400  
(400  $\text{ls}^{-1}$ )

## 2

Choose your backing pump: pumping speed from 1.2 to 20  $\text{m}^3\text{h}^{-1}$

9 backing pumps available from the 'EM' and 'RV' oil sealed rotary vane pumps, the XDDI diaphragm pump, to the dry scroll technology of the nXDS and mXDS3s models.



E2M1.5 (1.6  $\text{m}^3\text{h}^{-1}$ )



RV5 (5.1  $\text{m}^3\text{h}^{-1}$ )



XDD1 (1.2  $\text{m}^3\text{h}^{-1}$ )



mXDS3s (3  $\text{m}^3\text{h}^{-1}$ )



nXDS6i/10i/15i/20i  
(6.2 to 20  $\text{m}^3\text{h}^{-1}$ )



RV12 (12.0  $\text{m}^3\text{h}^{-1}$ )

## 3

Select your voltage

- 220-240 V 50/60 Hz (Europe)
- 110-120 V 50/60 Hz (USA)
- 200 V 50/60 Hz (Japan)
- 220-240 V 50/60 Hz (UK)



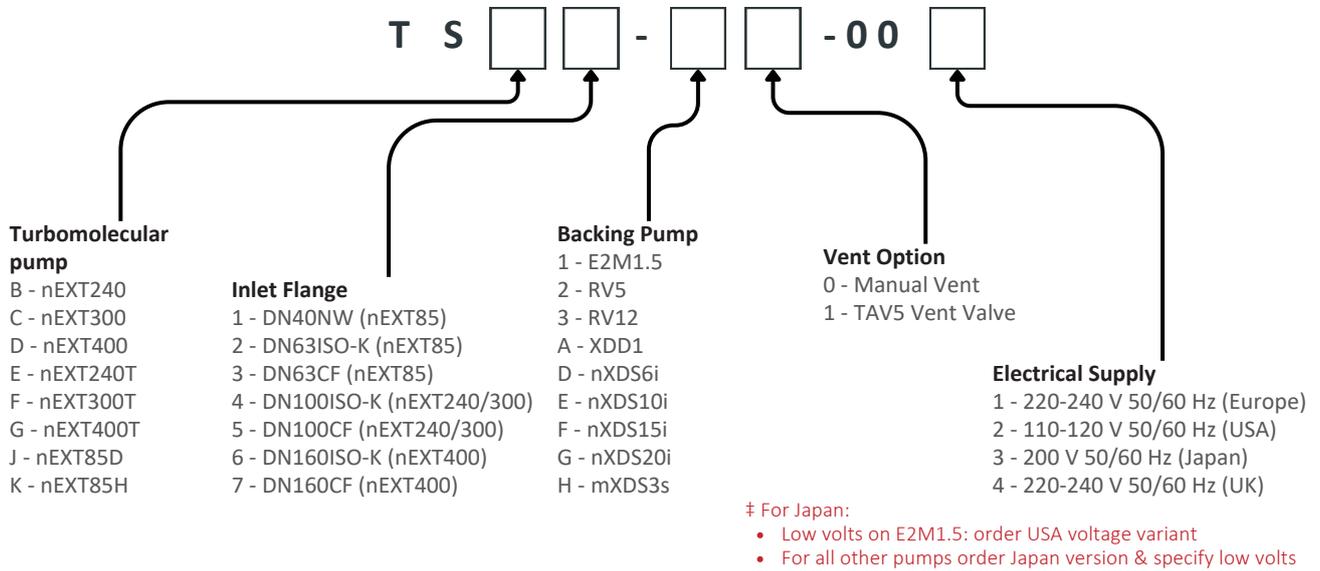
## TECHNICAL DATA

	Unit	TIC Pumping Station 85	TIC Pumping Station 240	TIC Pumping Station 300	TIC Pumping Station 400
<b>Pumping speed for N2</b>					
NW40	l/s	47	-	-	-
ISO63CF63		84	-	-	-
ISO100/CF100		-	240	300	-
ISO160/CF160		-	-	-	400
Compression ration for N2		> 1 x 10 <sup>11</sup>			
Backing pump speed	m <sup>3</sup> h <sup>-1</sup>	1,2 - 20			
Ultimate vacuum	mbar	<5x10 <sup>-8</sup> - <5x10 <sup>-10</sup>			
Mass	kg	25 - 55			
Noise level	dB(A)	54 (+/- 2.5)			
<b>Operating temperature</b>					
Dry vacuum pumps	°C	+ 5 to + 40			
Wet vacuum pumps		+ 12 to + 40			



## ORDERING MATRIX - TIC PUMPING STATIONS

Select the most appropriate combination for your application.



## ORDERING INFORMATION - ACCESSORIES & CORDS

	Description	Order number
Accessories	EMF3 mist filter for E2M1.5	A46220000
	N/C TAV5 vent valve connector fitted	B8G200835
	N/O TAV5 vent valve connector fitted	B8G200834
	APG200 - XLC active Pirani gauge NW16	D1G2011100
	AIM200 - X - active inverted magnetron gauge NW25	D2G0021100
	WRG200-X-active wide range gauge NW25	D3G0021100
	APGX-H active linear convection gauge NW16	D02391000
Cord sets	2m electrical supply cable UK plug	A50505000
	2m electrical supply cable EU plug	A50506000
	2m electrical supply cable USA/Japan plug	A50507000
	2m electrical supply cable no plug	A50508000
	0.5 m active gauge cable	D40001005
	1 m active gauge cable	D40001010

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