



# PROVAC

## SALES

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WWW.PROVAC.COM

# Edwards nEXT Turbocart

## Technical Specifications



		TAG 85 NW40	TAG 85 ISO/CF63	TAG 300 ISO/CF100	TIC 85 NW40	TIC 240 ISO/CF63	TIC 240 ISO/CF100	TIC 300 ISO/CF100	TIC 400 ISO/CF160
Pumping Speed for N <sub>2</sub>	l/s	47	84	300	47	84	240	300	400
Compression ratio for N <sub>2</sub>		>1x10 <sup>11</sup>	>1x10 <sup>11</sup>	>1x10 <sup>11</sup>	>1x10 <sup>11</sup>	>1x10 <sup>11</sup>	>1x10 <sup>11</sup>	>1x10 <sup>11</sup>	>1x10 <sup>11</sup>
Backing capacity - wet	m <sup>3</sup> /h	1.6	1.6	1.6	5 - 12	5 - 12	5 - 12	5 - 12	5 - 12
Backing capacity - dry	m <sup>3</sup> /h	1.2	1.2	1.2	1.2 - 22	6 - 22	6 - 22	6 - 22	6 - 22
Ultimate Vacuum	mbar	<5x10 <sup>-10</sup>	<5x10 <sup>-10</sup>	<5x10 <sup>-10</sup>	<5x10 <sup>-10</sup>	<5x10 <sup>-10</sup>	<5x10 <sup>-10</sup>	<5x10 <sup>-10</sup>	<5x10 <sup>-10</sup>
Noise Level at ultimate	dB(A)	<56	<56	<56	<56	<56	<56	<56	<56
Controller		TAG	TAG	TAG	TIC	TIC	TIC	TIC	TIC
Controlable gauges		1	1	1	3	3	3	3	3
Remote comms/control		No	No	No	Yes	Yes	Yes	Yes	Yes
Backing pump option		XDD/EM	XDD/EM	XDD/EM	nXDS/RV/XDD	nXDS/RV/XDD	nXDS/RV	nXDS/RV	nXDS/RV

1. Choose your turbopump	2. Choose your backing pump	3. Select your voltage

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**Turbomolecular pump**  
 B nEXT240  
 C nEXT300  
 D nEXT400  
 E nEXT240T  
 F nEXT300T  
 G nEXT400T  
 J nEXT85D  
 K nEXT85H

**Inlet Flange**  
 1 DN40NW (nEXT85)  
 2 DN63ISO-K (nEXT85)  
 3 DN63CF (nEXT85)  
 4 DN100ISO-K (nEXT240/300)  
 5 DN100CF (nEXT240/300)  
 6 DN160ISO-K (nEXT400)  
 7 DN160CF (nEXT400)

**Backing Pump**  
 1 E2M1.5  
 2 RV5  
 3 RV12  
 A XDD1  
 D nXDS6i  
 E nXDS10i  
 F nXDS15i  
 G nXDS20i

**Vent Option**  
 0 Manual Vent  
 1 TAVS Vent Valve

**Electrical Supply**  
 1 220-240 V 50/60 Hz (Europe)  
 2 110-120 V 50/60 Hz (USA)  
 3 200 V 50/60 Hz (Japan)  
 4 220-240 V 50/60 Hz (UK)



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## Edwards nEXT Turbocart Features & Benefits

- feature an integrated TIC turbo & instrument controller
- simple intuitive controller interface
- supplied fully assembled & ready to run
- range of turbo pump options with pumping speeds from 47-100l/s and inlet flanges from KF40 to ISO160
- all turbo & backing pumps are fully user serviceable
- robust metal frame with locking castors for easily mobile system
- backing pump mounted on anti-vibration mounts for low noise

## Applications

- accelerators • analysis & surface physics • beam lines • electron beam welding • load locks • high energy physics • research & development • surface science • UHV systems

