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## Ebara A30W, A70W **Technical Specifications**

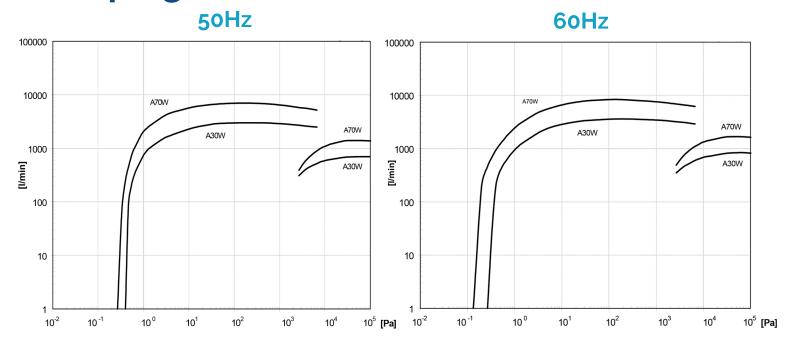
Pumping Speed (50 / 60Hz)         7000 / 8400 L/min         3000 / 3600 L/min           Ultimate Pressure (50 / 60Hz)         0.27 / 0.13 Pa         0.4 / 0.27 Pa           Connection         Gas Inlet         NW50           Motor         2P 2.2 kW + 3.7 kW         2P 1.5 kW + 2.2 kW           Cooling Water         Pressure         Supply : Max 0.4 MPa           Burney Pressure         Gauge Press.]         Differential Press. : 0.1 MPa           Flow Rate         Min. 3.5 L/min           Temperature         Max. 30 deg C           Connection         1/4" Tube Fitting (Same as Swagelok®)           Pressure [Gauge Press.]         Supply : 0.1-0.7 MPa           Setting : 0.04-0.07 MPa         Setting : 0.04-0.07 MPa           Approx. Flow Rate [Dilution 0 Mode]         24-27 Pa m³/s [3.4 Pa m³/s]         17-22 Pa m³/s [3.4 Pa m³/s]	0.27 / 0.13 Pa  NW  NW  2P 2.2 kW + 3.7 kW  Coupler (  Supply : N  Differential Pres	Ultimate Pressure (50 / 60Hz)  Connection Gas Inlet Gas Outlet  Motor	0 / 3600 L/min	
Connection         Gas Inlet         NW50           Connection         Coupler (R c 3/8)           Conjunction         Coupler (R c 3/8)           Pressure [Gauge Press.]         Supply : Max 0.4 MPa           Differential Press. : 0.1 MPa         Pilow Rate           Flow Rate         Min. 3.5 L/min           Temperature         Max. 30 deg C           Connection         1/4" Tube Fitting (Same as Swagelok®)           Pressure [Gauge Press.]         Supply : 0.1-0.7 MPa           Setting : 0.04-0.07 MPa         Approx. Flow Rate [Dilution 0 Mode]           Pressure [Dilution 0 Mode]         24-27 Pa m³/s [3.4 Pa m³/s]         17-22 Pa m³/s [3.4 Pa m³/s]	NW NW 2P 2.2 kW + 3.7 kW  Coupler ( Supply : N Differential Pres	Connection Gas Inlet Gas Outlet Motor		
Connection         Gas Outlet         NW40           Cooling Water         Connection         Coupler (R c 3/8)           Pressure [Gauge Press.]         Supply : Max 0.4 MPa           Differential Press. : 0.1 MPa           Flow Rate         Min. 3.5 L/min           Temperature         Max. 30 deg C           Connection         1/4" Tube Fitting (Same as Swagelok®)           Pressure [Gauge Press.]         Supply : 0.1-0.7 MPa           Setting : 0.04-0.07 MPa           Approx. Flow Rate [Dilution 0 Mode]         24-27 Pa m³/s [3.4 Pa m³/s]         17-22 Pa m³/s [3.4 Pa m³/s]	NW 2P 2.2 kW + 3.7 kW  Coupler ( Supply : N  Differential Pres	Gas Outlet  Motor	.4 / 0.27 Pa	
Cooling Water	2P 2.2 kW + 3.7 kW  Coupler (  Supply : M  Differential Pres	Gas Outlet  Motor	NW50	
Cooling Water         Connection         Coupler (R c 3/8)           Pressure [Gauge Press.]         Supply : Max 0.4 MPa           Differential Press. : 0.1 MPa         Differential Press. : 0.1 MPa           Flow Rate         Min. 3.5 L/min           Temperature         Max. 30 deg C           Connection         1/4" Tube Fitting (Same as Swagelok®)           Pressure [Gauge Press.]         Supply : 0.1-0.7 MPa           Setting : 0.04-0.07 MPa         Setting : 0.04-0.07 MPa           Approx. Flow Rate [Dilution 0 Mode]         24-27 Pa m³/s [3.4 Pa m³/s]         17-22 Pa m³/s [3.4 Pa m³/s]	Coupler ( Supply: N Differential Pres Min. 3.5		NW40	
Pressure   Supply : Max 0.4 MPa	Supply: N Differential Pres Min. 3.5	Connection	.5 kW + 2.2 kW	
Cooling Water	Differential Pres		Coupler (Rc 3/8)	
Water	Min. 3.5	Cooling	Differential Press. : 0.1 MPa	
Temperature				
Connection				
Pressure [Gauge Press.]  Setting : 0.1-0.7 MPa  Setting : 0.04-0.07 MPa  Approx. Flow Rate [Dilution 0 Mode]  24-27 Pa m³/s [3.4 Pa m³/s]  [3.4 Pa m³/s]	<del>`</del>			
N <sub>2</sub> Gas	1/4" Tube Fitting (Same as Swagelok®)			
N2 Gas         Setting : 0.04-0.07 MPa           Approx. Flow Rate [Dilution 0 Mode]         24-27 Pa m³/s [3.4 Pa m³/s]         17-22 Pa m³/s [3.4 Pa m³/s]	Supply : 0.1-0.7 MPa			
Rate [Dilution 0 Mode] [3.4 Pa m³/s] [3.4 Pa m³/s] [3.4 Pa m³/s]	Setting : 0.		a	
<del>                                     </del>	1	Rate		
Connection d50 mm×L50 mm	d50 mm×	Connection		
Duct Pressure -196 Pa	-196 Pa			
Ventilation Approx. Flow 0.5 m³/min Rate	0.5 m³/min			
Lubrication Oil  FOMBLIN Y-L VAC 25/6 BARRIERTA J100 DEMNUM S-65 KRYTOX VPF 1525	BARRIERTA J100 DEMNUM S-65			
Quantity 0.8 L	0.8 L			
Approximate Weight 380 kg 330 kg	380 kg	Approximate Weight	330 kg	
Phase/Volt/Freq. 3 Phase, 200V (50 Hz), 200-220 V (60Hz)	3 Phase, 200V (50 Hz), 200-220 V (60Hz)			
Power (50 / 60 Hz) 29.5 / 28.1 A 19.7 / 18.5 A	29.5 / 28.1 A	Power (50 / 60 Hz)	9.7 / 18.5 A	
Supply  MS Series 22-22  Connection  (Japan Aviation Electronics Industry)	Connection MS Series 22-22		dustry)	
Control Signal 57 Series 50 (DDK. Ltd)	57 Series 50 (DDK. Ltd)			

[Note] Approximate flow rate of N<sub>2</sub> gas shows a necessary total amount for seal N<sub>2</sub> and dilution N<sub>2</sub>. LCD controller displays only the flow rate of dilution N<sub>2</sub>.

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# Ebara A30W, A70W

#### **Pumping Curves**





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### Ebara A30W, A70W **Features & Benefits**

- complete pump safeguard system
- · high pump operating temperature prevents condensation
- · low noise & vibration
- corrosion resistant materials-stainless steel coolers & water circuits
- high reliability even for harsh processes
- efficient interstage coolers for LPCVD nitride process
- canned motor
- low service requirements
- control panel for monitoring operating conditions
- very low nitrogen consumption for purging
- · clean room compatible
- compact size & small footprint
- low service requirements

#### **Applications**

• semiconductor • solar • research & development