

EBARA Dry Pump Specification

ESR Series



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EBARA ESR Series Dry Pump Specifications

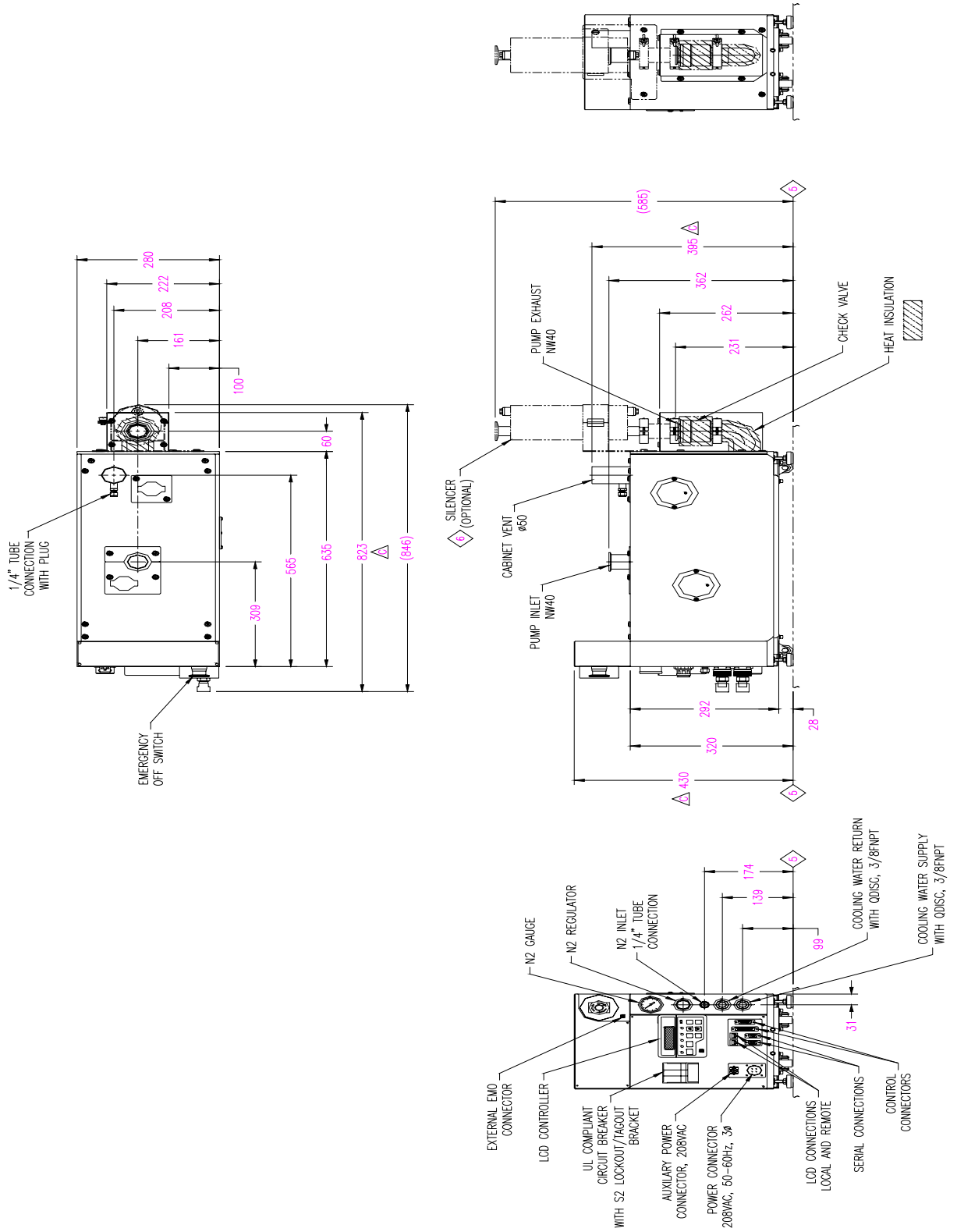
Model		ESR20N	ESR80WN	ESR200WN
Pumping Speed		1300 – 2000 liters/minute	4000 – 8500 liters/minute	10000 – 20000 liters/minute
Ultimate Pressure		2.0 Pa	0.2 Pa	0.13 Pa
Connection	Gas Inlet	NW40	NW50	NW100
	Gas Outlet	NW40	NW40	NW40
Approx. Power at Ultimate Pressure (Max. Power)		0.7 kW (2.8 kW)	1.0 kW (5.2 kW)	1.1 kW (5.6 kW)
Utility	Cooling Water	Connection	Coupler (Rc ³ / ₈ or ³ / ₈ NPTF)	
		Pressure [Gauge Pressure]	Supply: 0.4MPa Maximum Differential Pressure: 0.1MPa Minimum	
		Flow rate	2 - 8 liters/minute	
		Temperature	Maximum 30°C	
	N₂ Gas	Connection	1/4" Tube Fitting (Swagelok® or equivalent)	
		Pressure [Gauge Pressure]	Supply: 0.1 - 0.7MPa [Setting: 0.04 - 0.07MPa]	
		Approximate Flow rate [N₂-0 Mode]	19 - 22 Pa m ³ /s [0.0 Pa m ³ /s]	19 - 22 Pa m ³ /s [3.4 Pa m ³ /s]
	Duct Ventilation *	Connection	50 mm diameter x 50 mm long tube	
		Pressure	-196 Pa	
		Approximate Flow Rate	0.5 m ³ /min	
Lubrication Oil	Brand	BARRIERTA J100ES (NOK)		
	Quantity	50 cc	300 cc	300 cc
Approximate Weight		90 kg	180 kg	250 kg
Power Supply	Phase/Volt/Frequency	3 Phase / 200VAC, 50Hz; 200-220VAC, 60Hz		
	Power Capacity	4.0 kVA	7.0 kVA	8.0 kVA
	Connection	Japan Aviation Electronics Industry		
		JL04V-2E20-4PE-B	JL04HV-2E22-22PE-B	
Control Signal		D Sub 15-pin + D Sub 25-pin		
Airborne noise test data [dB (A)] **		61	62	62

* NOTE: Install the pump in a location where maximum ambient temperature does not exceed 30°C.

** Noise Test Conditions

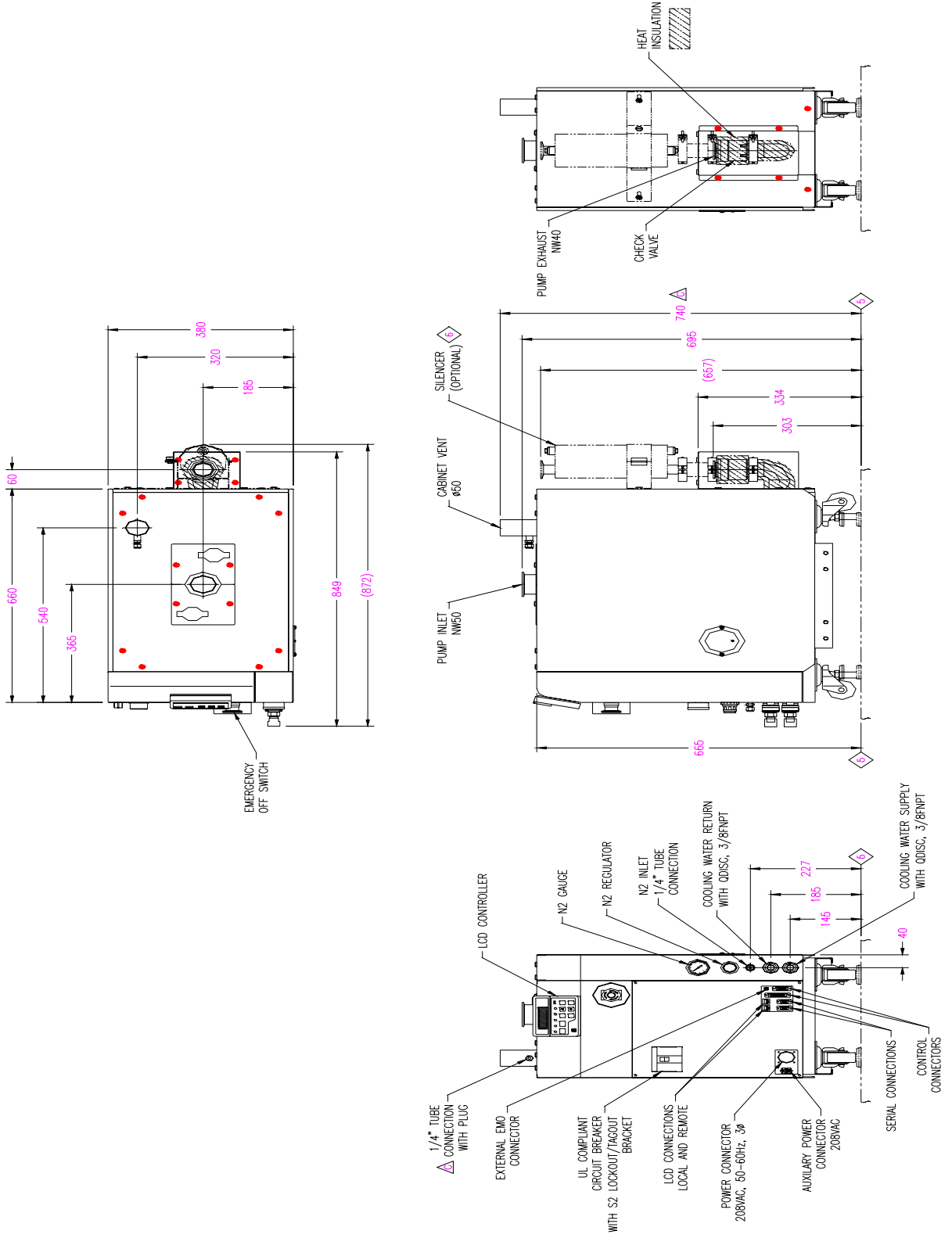
- (1) Pump operating at ultimate pressure
- (2) Measurements taken 1m from cover and 1.6m above floor

ESR20N Pump Outline Drawing



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ESR80WN Pump Outline Drawing



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ESR200WN Pump Outline Drawing

