

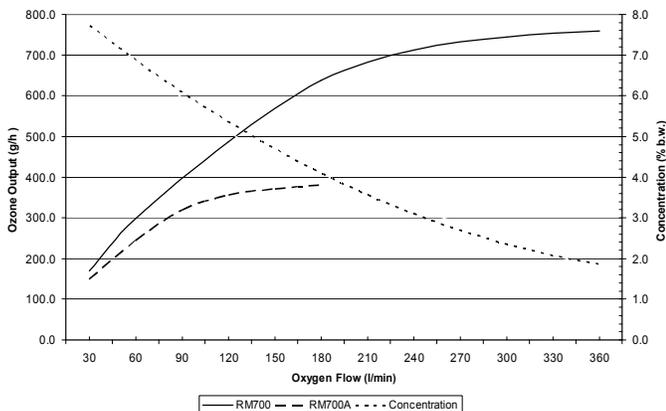
AZCO INDUSTRIES LIMITED

Advanced Ozone Technology

Azcozon **RM700** OZONE GENERATOR



PERFORMANCE OUTPUT



Product Specification

Ozone Generation Silent Pulse Injection Corona Discharge

Process Gas 92-98% oxygen at only 0.2 bar (3 psi) input pressure. The actual pressure of the ozone output is at ambient level and balanced to the suction flow of the MIC injectors.

Oxygen Supply Control Integrated proportional valve adjusts the oxygen flow automatically to the flow initiated at the MIC injector and its in-line gas-flow control valve.

Nominal O₃ Production 700 g/hour at 225 LPM at ambient pressure -see the Performance Graph.

O₃ Concentration See the Performance graph where presented at zero (ambient) pressure at the sea level. When compared with competing ozone generators that are often rated at 15-25 psi (1-1.6 bar) above ambient pressure, our comparable 8% b.w. increases to 16-20% b.w. The mixing efficiency and overall performance and economy is however at the best when ozone is applied towards a vacuum operated devices such as MIC injectors, AZCOZON SPT and BT tanks at zero (ambient) pressure.

O₃ Output Control

- Manually from the front panel "step up" and "step down" push button, with 16-bit LED status display bar. The setting is secured with a long life battery against loss of memory.
- Remotely from standard 4-20mA control loop. The remote control is secured with a manual key-lock. The remote control takes over the 16-step LED status display bar. When returning to manual control, the previous manual

For other sizes of ozone generators, and air dryers, controllers, injectors, pumps, tanks and other related equipment - contact our Engineering Department.

	<p>setting is renewed automatically.</p> <p>- By reducing of the ozone intake flow where liquid oxygen is supplied, for the best economy.</p>		
O₃ Output Line	Via Integrated Balance Barometer into MAZZEI injector or AZCOZON SPT tank another vacuum producing device that provides sufficient suction. In air treatment systems the output will provide positive pressure up to 0.2 bar (3 psi) to feed ozone through the ozone lines.	Over-voltage Protection	Automatic shut down of the whole system when the power supply voltage exceeds 15% above the nominal rating. Full recovery of the system will occur automatically when the power line voltage returns back within the standard levels.
Safety Separation	In case of certain failures in the hydraulic system the process water will overflow the Balance Barometer rather than entering the ozone generator.	Surge Protection	Recoverable automatic surge suppression in case of extreme surges of short duration. Unrecoverable damage to the surge suppressor in case of extreme surge of a long duration ends in protective short at the input power terminals.
Cooling	Internal sealed water system. There is no need to connect to any external cooling system. However, where it is specifically required, an optional external cooling system of the same size as the ozone generator can be provided.	Controls	<p>All control signals are shown on the front panel. All these signals are also available at the back panel connector, compatible with PLC and frame computers interface:</p> <ul style="list-style-type: none"> - OZONE ON (ozone is being produced) - REMOTE ON/OFF - PROCESS INTERLOCK - AMBIENT R.H. - OXYGEN HUMIDITY - AMBIENT OZONE - TEMPERATURE (air and water) - LOSS OF VACUUM - VACUUM HIGH - DOOR INTERLOCK - OZONE CONTROL LOCK - UNIT READY (powered)
Ambient Temperature	1 ^o - 28 ^o C, the cooler the better. Higher than 28 ^o C will result in reduced ozone output and eventual automatic shutdown.	Dimensions	25 x 25 x 62" (638 x 638 x 1574 mm). Standard industrial rack
Ambient Humidity	20-90% R.H. Air conditioned air is needed in most locations, even if the humidity may exceed 90% R.H. for just a few days a year. Automatic shut down will result at higher than 90% R.H. Lower than 20% may not provide sufficient cooling.	Certifications	W&H to CSA, ETL standards, NSF standards.
Power	3-phase 380-400/230-240V 50Hz 3-phase 208/60Hz 2-phase 240V/60Hz	Weight	~ 120 kg
Power Demand	Max. 7.3 kW at the nominal ozone output, cooling included.	Warranty	Three years - refer to AZCO warranty sheet
Load Compensation	The power demand is 100% resistive - there is no need for line compensation.	Installation	In a clean and well ventilated room in accordance with the Installation manual.
Line Power Display	Front panel digital Volt-meter and Amp-meter	Operation	In conjunction with injector (vacuum) based mixing systems with MIC injectors, such as AZCOZON SPT tanks and other equipment made or approved by AZCO.