

PRODUCT DATA SHEET



Chlorine Dioxide Generator HP Series (CDG-HP)

water | wastewater | sewage

OVERVIEW

The HP series chlorine dioxide (ClO₂) generator from PureLine, is ideal for applications requiring high purity Chlorine Dioxide, for example, drinking water, food & beverage production, healthcare and pharmaceutical applications.

Using PureCideE, a highly concentrated single-liquid precursor, PureLine's patented electrochemical cells efficiently produce 99.5% pure, chlorine-free, ClO₂ solution (active ClO₂ versus bi-products in water). Pure ClO₂ is delivered on demand, safely, and efficiently without the need for an external storage tank.

Reaction Chemistry: $2\text{NaClO}_2 + 2\text{H}_2\text{O} \xrightarrow{\text{electricity}} 2\text{ClO}_2 + 2\text{NaOH} + \text{H}_2$

The system is capable of feeding multiple dosage points simultaneously allowing for several applications from a single generator. The HP series is a common platform system allowing for cost effective, on-site capacity upgrades that grow with your operation/facility. With multiple safety interlocks, available reporting and communication options, and expert engineering and service support, the HP series is truly the bench mark in safe and reliable ClO₂ generation.

- Single-liquid precursor PureCideE (no acid)
- Produces 99.5% pure ClO₂
- pH neutral solution
- Long life electrolytic cells (no cartridges)
- Multiple control options (flow, residual, permissive, timers, manual)
- Customizable and scalable to 18.14kg/day
- Low operating cost - enhanced ROI



STANDARD SPECIFICATIONS

Parameter	Units	PureLine HP Model			
		HP-3	HP-10	HP-20	HP-40
ClO ₂ Output Capacity	kg/day	1.36	4.54	9.07	18.14
Electricity requirement		220 VAC, 1PH, 30A (<15A NLD)			
Inlet water		Clean/filtered min 350 kPa (1.89l/min – 11.36l/min)			
Precursor chemical usage		PureCideE – 6.04kg / 1kg produced ClO ₂			
Co-products		20% NaOH solution (0.037l/min-0.378l/min), Spent chemical (0.037l/min - 0.189l/min), H ₂ safely diluted to <0.5 vol% and RO waste (1.89l/min – 3.78l/min)			
Cabinet		White polypropylene			
PLC & HMI		Allen Bradley PLC and Colour Touch Screen			
Dimensions	mm	1327 x 1918 x 718			
Weight	kg	227			

STANDARD INCLUSIONS + OPTIONS

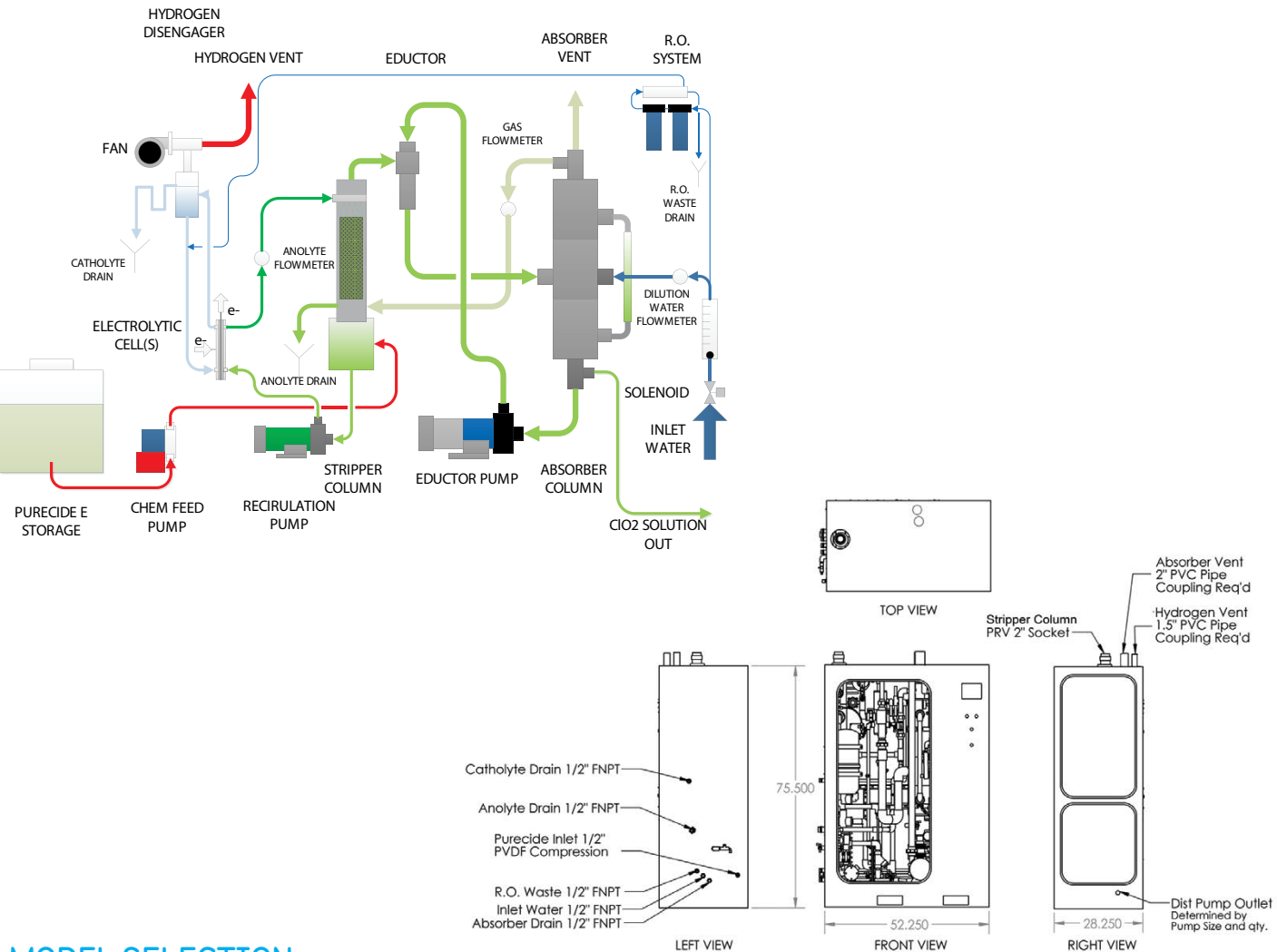
✓ = Standard Supply o = Optional Supply

Equipment	ALL HP Models
Cabinet enclosed generator	✓
Produced ClO ₂ solution pump	✓
Produced ClO ₂ break tank with pipework & fittings (1-day storage)	o
Cabinet air condition unit	o

STANDARD INCLUSIONS + OPTIONS

✓ = Standard Supply o = Optional Supply

Instrumentation & Controls	
Control Panel compliant with AS/NZS 3000, IP55	✓
PLC control system with HMI touch screen	✓
ClO ₂ residual analyser	o
Purecomms remote monitoring	o



MODEL SELECTION

HP-3	Capacity – typical 1.36 kg/d
HP-10	Capacity – typical 4.54 kg/d
HP-20	Capacity – typical 9.07 kg/d
HP-40	Capacity – typical 18.14 kg/d
	X Cabinet air conditioning - without
	A Cabinet air conditioning - included
	X ClO ₂ residual analyser – without
	R ClO ₂ residual analyser – included
	X PureComms remote monitoring - without
	C PureComms remote monitoring - included
	X Produced ClO ₂ break tank - without
	T Produced ClO ₂ break tank - included
	X Specification - standard
	C Specification - custom
CDG - HP-__	__

NEED A QUOTE?

COMPLETE THIS TABLE AND
EMAIL TO...

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