

9293/D

FLOW GENERATOR

FOR
CPAP
THERAPY



HAROL

Your breathing
our mission

For a correct helmet CPAP therapy, air/oxygen flows of at least 40-50 liters per minute are required to allow a good CO₂ "washing" and therefore to avoid "rebreathing" effects.

Harol has developed and produced the **9293/D, an INNOVATIVE VENTURI EFFECT FLOW GENERATOR** capable of delivering high flows up to **180 liters/min.**

FEATURES AND BENEFITS

Dual flowmeter, equipped with a high-efficiency Venturi device, for ventilation in CPAP mode with high flow-through and variable oxygen fraction (FiO₂).

The device is **equipped with an integrated manometer** and can be connected to all models of helmets and masks suitable for CPAP therapy.

This device is easy to use even outside intensive therapies (e.g. pneumology, medicine and CICU).

It has no electrical or electronic parts, so it is extremely reliable and easy to manage.

By selecting the desired oxygen flow rate on the main flowmeter, the generator takes an amount of air from the environment which, when added to the oxygen flow, **determines the flow** (which can be adjusted from 0 to 180 l / min.) to the patient.

By acting on the second flowmeter, **it is possible to adjust the FiO₂ from 30% to 100%**. The PEEP value can be read on the integrated manometer in the flowmeter body (scale 0-20 cm H₂O).

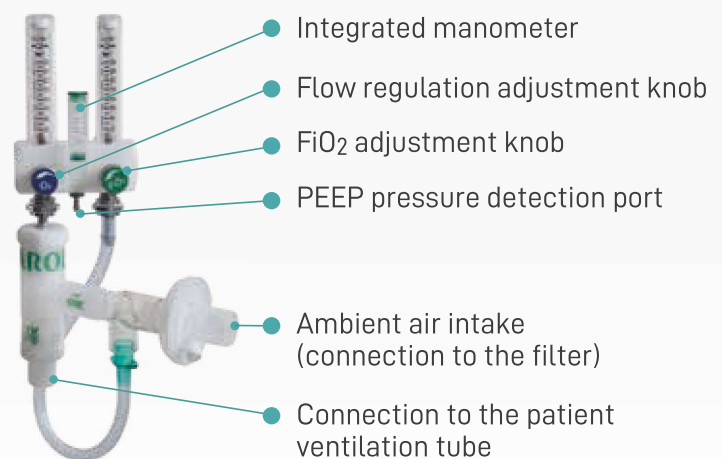
THE BEST SOLUTIONS FOR CPAP THERAPY

From specific tables provided by HAROL it is possible to know **the delivered flow and the FiO₂**.
By way of example, the table relating to the values with the **PEEP valve at zero** is shown here.

INDICATIVE VALUES*											
MAIN OXYGEN FLOW RATE (lt/min)	SUPPLEMENTAL OXYGEN FLOW RATE (lt/min)										
	0	2	6	10	14	18	22	26	30	Max	
6	49	50	51	52	52	52	53	54	54	52	Ft (lt/min)
	30	33	39	45	52	59	65	71	78	100	FiO ₂ (%)
10	90	92	92	92	92	92	92	92	92	95	Ft (lt/min)
	30	33	37	40	44	48	51	55	58	85	FiO ₂ (%)
14	120	121	122	123	123	123	122	122	123	123	Ft (lt/min)
	32	35	35	37	40	42	45	48	50	74	FiO ₂ (%)
18	145	148	148	149	149	148	148	148	148	148	Ft (lt/min)
	30	33	34	36	38	41	43	45	47	64	FiO ₂ (%)
22	166	167	169	170	170	175	177	177	178	175	Ft (lt/min)
	31	32	34	36	38	39	41	43	45	61	FiO ₂ (%)
26	195	198	198	198	198	198	198	198	198	198	Ft (lt/min)
	32	33	34	36	37	39	41	43	44	58	FiO ₂ (%)

*Flow and FiO₂ values vary as the PEEP value changes. The table above refers to values without PEEP valve.

- » The generator is equipped with a plug for the connection to the wall socket of the department (**AFNOR or UNI types**). Upon request, the unit can be provided with a clamp for fixing to a stand.
- » For proper operation, the generator must be **powered at 3.5 bar**.
- » It is provided with a **22M patient circuit connection**.



AVAILABLE PRODUCTS			
ITEM NUMBER		ITEM DESCRIPTION	PACKAGING
9293/D		High flow Venturi generator with dual 30+30 LPM flowmeter, manometer, and oxygen wall connection system (specify if UNI or AFNOR/SIO type).	Single packed
9200	SPARE PART	High flow generator with Venturi effect, for high flow Venturi system.	Single packed
9300/D	SPARE PART	Dual oxygen flowmeter (30+30 l/min) for high flow Venturi system, equipped with oxygen connection port.	Single packed
9300/3	SPARE PART	Venturi generator and flow meter connection kit.	10 pcs.

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MADE IN ITALY