Sidel

ENERGY REQUIREMENT SBO 4 Compact

BOTTLE SPECIFICATIONS

Mold number	mold	4	4	4	4
Output rate	B/H/M*	1600	1600	1550	1400
Bottle volume	liter	0.50	1.00	1.50	2.00
Bottle height	mm	260	260	348	348
Bottle weight	g	25	39	45	51

* *B/H/M =Bottle per Hour per Mold.

BESOINS PNEUMATIQUES

For further information, please refer to chapter : "Air quality", in the Presentation Manual.

CHARACTERISTICS :

High Pressure (blowing)	bar	35	35	35	35
Low Pressure (service)	bar	7	7	7	7

CONSUMPTION : (at the machine inlet)

Without the air recovery option :

High Pressure air consumption	(m3)°/h *	221	337	440	499
Low Pressure air consumption	(m3)°/h *	54	54	59	54

Option air recovery not available yet

****(m3)°/h = Nm3/h : Represents the quantity of dry air present in 1m³ under normal temperature and pressure conditi**
"Normale" pressure = Atmosphérique pressure at zéro altitude = 1,013 bar - "Normale" Température = 0°C = 273 °K.

ELECTRICITY REQUIREMENTS

CHARACTERISTICS : 400 volts (+10% / -10%) -- 3 phases -- 50/60 HZ + Terre -- Cos j > 0,

Short circuit current at the machine feed point should not be over 25

ESTIMATED POWER REQUIREMENT	kWh	31	37	38	37

The values indicated are provided as general information and may in no way be considered as contractual.

INSTALLED POWER*	kW	125
Connections available on option:	kW	52

*This requirement is based on the basic minimum machine configuration (Standard heating configuration + standard auxiliary power requiren

WATER REQUIREMENTS

For further information, please refer to chapter : "Quality of water distribution circuits", in the Presentation Manual.

* CHARACTERISTICS :

Water pressure at machine inlet : 4 to 6 bar (average inlet / outlet DP = 3 bar)

Recommended Température difference (inlet/outlet) DT° = 3°C maximun

		Bottle weight			
		25g	39g	45g	51g
COOLING SHIELDS - OVEN (Water at 12°C)					
- Necessary flow	m3/h.	3			
- Heat energy to be dischaged per hour	kJ *	18664	22804	23657	23032
COLD MOLD THERMAL CONDITIONNING (Water at 12°C)					
- Flow to mold bodies and base	m3/h.	6.4	6	6.4	6.4
- Heat energy to be dischaged per hour for mold bodies and bases	kJ *	23708	34334	37821	38604
- Temperature difference (inlet/outlet) DT°	°C	0,9	1,3	1,4	1,4
HOT MOLD THERMAL CONDITIONNING (Water at 65°C)					
- Flow to mold bodies (thermoregulated water)	m3/h.	4			
- Thermoregulator heating power (mold heating)	kWh	20			
- Average power required for maintaining mold T°	kWh	14	14	14	14
- Flow to mold necks and bases (Water 12°C)	m3/h.	6.4	6.4	6.4	6.4
- Heat energy to be discharged per hour for mold necks and bases (Water 12°C)**	kJ *	32717	39801	42125	42647
- Temperature difference (inlet/outlet) DT°	°C	1,2	1,5	1,6	1,6

**Reminder : 1kJ = 0,24 kcal approximately.*

**Does not include calories dissipated into the cold water circuit in the heater itself.

OVEN VENTILATION REQUIREMENTS

OVEN COOLING (Preforms + Lamp caps)					
- Heat energy emitted per hour in the workshop	kJ	106305	123593	125888	120939
- Ventilation	m3/h.	10820			

- These figures are taken at the machine inlet with an ambient temperature of 25°C maximum.