

7. TECHNICAL DATA

Mechanical		VT 6060 M - BL	VT 6130 M - BL	Unit
Dimensions	Unit (W x H x D (incl. door handle))	744 x 575 x 630	895 x 720 x 810	mm
	Chamber (W x H x D)	415 x 345 x 371	495 x 489 x 529	mm
	Clearance between the trays	124 / 155	124 / 124 / 158	mm
Inside volume		approx. 53	approx. 128	l
Weights	Unit weight (empty)	approx. 82	approx. 153	kg
	Maximum total load	40	60	kg
	Max. tray load (surface distr.)	20	20	kg
Connections	Vacuum connection	DN 25	DN 25	
	Vacuum conn. + hose nozzle	Ø 20	Ø 20	mm
	Inert gas (process gas) Input pressure setting: 1 bar	Ø 5, for hose Ø 4 x 1		mm
	Inert gas (emergency inert.) Input pressure setting: 2 bar	Ø 10, for hose Ø 9 x 3		mm

Electrical		VT 6060 M - BL	VT 6130 M - BL	Unit
Rated voltage, rated frequency		1 / PE AC, 230 V; 50 / 60 Hz		
Power consumption		1.6	2.2	kW
Current input		7.4	9.6	A
Protection class		I		
Degree of protection	Electrical equipment	IP 20, forced-ventilated		
	Inner chamber	Vacuum-tight, supplementary explosion protection in the form of minimum ignition pressure interlock and emergency inertization		
Circuit protection (Only use properly installed socket-outlets (PE conductor) to connect the unit up to the mains. The applicable national electrical engineering regulations and technical requirements must be observed)		T 16 A fusible link or B 16 circuit-breaker, Connection via an earth-leakage circuit-breaker (tripping current ≤ 30 mA) is recommended		

Vacuum system		VT 6060 M - BL	VT 6130 M - BL	Unit
Achievable final vacuum		0.01	0.01	mbar
		0.01	0.01	hPa
Leak rate		< 0.01	< 0.01	mbar x l / s
Pump extraction capacity		1 - 30	1 - 30	m ³ / h

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Thermal		VT 6060 M - BL	VT 6130 M - BL	Unit
Operating temperatures up to		200	200	°C
Spatial temperature deviations at an operating temperature of	200 °C ¹⁾	± 4	± 7	°C
	150 °C ¹⁾	± 3	± 5	°C
	70 °C ¹⁾	± 1.5	± 2	°C
Temporal temperature deviations at an operating temperature = 200 °C ¹⁾		< 0.5	< 0.5	K
Warm-up time from 25 °C to approx. 98 % of the operating temperature	200 °C ¹⁾	75	140	Min.
	150 °C ¹⁾	75	115	Min.
	70 °C ¹⁾	40	70	Min.
Heat radiation to surrounding areas at an operating temperature of	200 °C	0.55	0.87	kW
	150 °C	0.37	0.55	kW
	70 °C	0.2	0.28	kW

¹⁾ Measured as per DIN 12 880 Part 2 on the trays during vacuum mode < 10 mbar inside pressure

Materials used	
Component	VT 6060 M - BL / VT 6130 M - BL
Outer casing	Galvanized sheet steel, painted/coated RAL 9002
Inner chamber	Stainless steel, material No. 1.4301
Trays	Aluminium
Thermal insulation	Mineral fiber wool ²⁾
Control panel / plastic parts	Mixture of ABS and PC
Door seal	Seasoned silicone rubber
Viewing window (implosion protection)	Toughened safety glass / silicate glass
Sealing window	Toughened safety glass / silicate glass
Electrical equipment	Encapsulated components coated with various plastics, some mounted on glass fiber reinforced PCBs with epoxy resin

²⁾ Fibrous materials used for insulation are classified as health hazards in some countries. Although the fibers which may be released into the environment during normal operation do not constitute a serious risk, greater, more hazardous quantities may be released as a result of improper handling during repair work or as a result of mechanical damage.

3. UNIT SPECIFICATION

OPERATING PRINCIPLE

Fig. 1/3: Process diagram

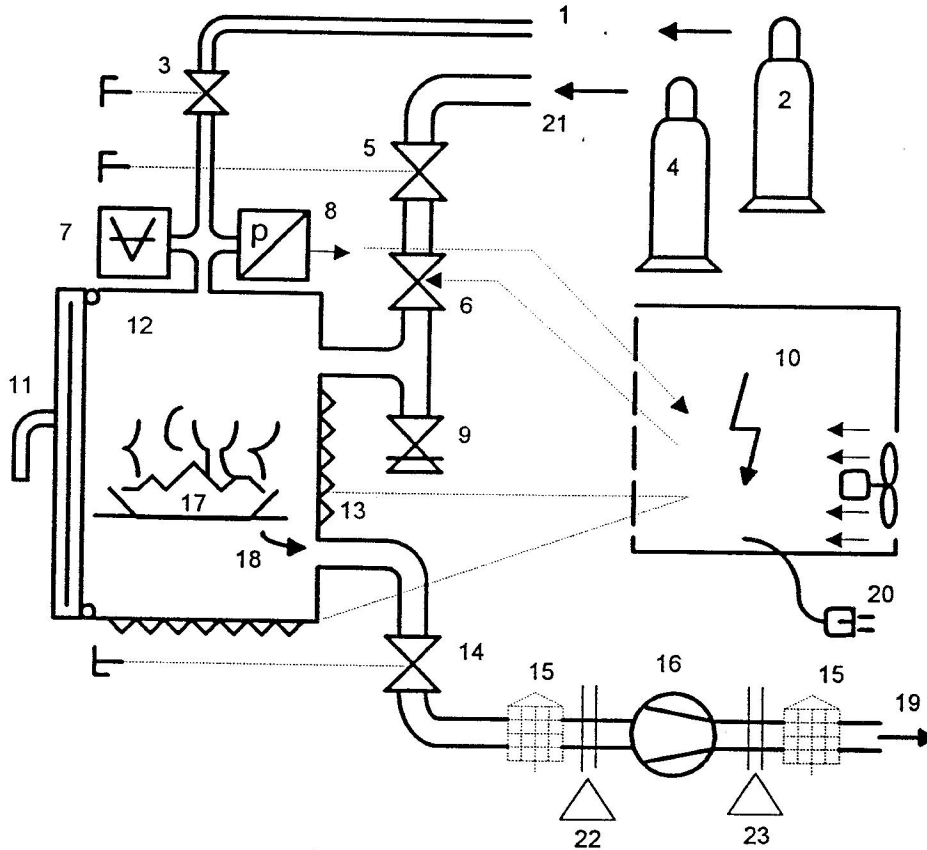


Fig. 1/3:

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| 1 - Inert-gas connector (process gas) | 13 - Heating |
| 2 - Inert-gas / process-gas supply | 14 - Vacuum cut-off valve |
| 3 - Fine metering valve | 15 - Flame trap (accessory) |
| 4 - Emergency inertization supply | 16 - Vacuum pump |
| 5 - Emergency inertization cut-off valve | 17 - Material undergoing treatment |
| 6 - Emergency inertization valve | 18 - Extracted vapor |
| 7 - Pressure indicator | 19 - Exhaust gases led safely outside |
| 8 - Minimum ignition pressure switch | 20 - Mains connection |
| 9 - Relief valve | 21 - Emergency inert-gas connector |
| 10 - El. control section | 22 - Condensation trap (accessory) |
| 11 - Oven door | 23 - Condensation trap (accessory) or emission condenser |
| 12 - Inner chamber | |