

1250-DDF Technical data

Typical system configuration (refer to 1250-DDF dimensions and quotation)

A	1250-DDF Box coater (including water thermo conditioner)
B	CC-11-S Cascade cooler for Meissner trap
C	GCC-23 Water chiller
D	Transformer for box coater (for other voltage than 400 V)
E	Transformer for cascade cooler (for other voltage than 400 V)

Box coater

Rated power consumption	42 kW $\cos \varphi$ 0.75
Rated voltage (3P + N + E) and rated frequency	400 V ($\pm 10\%$) 50/60 Hz ($\pm 2\%$)
Grounding resistance	< 1.5 Ohm
Max. harmonic distortion	5%
Fuses at 400 V	80 A

CC-11-S Cascade cooler

Rated power consumption	19.2 kW
Nominal rated voltage (3P + N + E) and rated frequency	400 V ($\pm 10\%$) 50 Hz ($\pm 2\%$) 460 V ($\pm 10\%$) 60 Hz ($\pm 2\%$)
Fuses at 400 V	35 A

GCC-23 Water chiller

Rated power consumption	10.3 kW
Nominal rated voltage (3P + N + E) and rated frequency	400 V ($\pm 10\%$) 50 Hz ($\pm 2\%$)
Fuses at 400 V	25 A
Water temperature	18 – 20°C

Coating room conditioning requirements

Temperature	20 – 22 C°
Relative humidity	45 – 50%
Clean room	Class 10.000

Box coater compressed air

Pressure	6/600 bar/kPa minimum
Consumption	10 l/batch (typical)

Typical gas for coating process

	Oxygen	Argon
Pressure	0.35/35 bar/kPa	0.7/70 bar/kPa
Consumption	250 cm ³ /batch (typical)	120 cm ³ /batch (typical)

Transformer D + E (for other voltage than 400 V)

Nominal power	35 kVA (each)
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Weight approx.

1250-DDF Box coater components	
• Vacuum chamber assembly and diffusion pumps	3400 kg
• Electrical cabinet	650 kg
• Preliminary vacuum pump	790 kg
• TA-9 Water thermo conditioner	80 kg
CC-11-S Cascade cooler	545 kg
GCC-23 Water chiller	230 kg
Transformer for box coater (for other voltage than 400 V)	310 kg
Transformer for cascade cooler (for other voltage than 400 V)	310 kg

Note: This data sheet does not include any other peripheral equipment consumption.