

### CT-17-700.GB

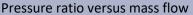
Highly compact, high-speed, electrically driven radial turbo compressor with gas bearing for the circulation and compression of various gases and refrigerants.

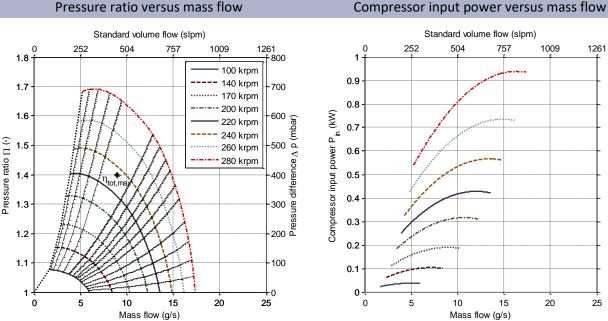
- High-speed gas bearings for oil-free operation
- Lowest ratio of volume and weight versus pressure and mass flow due to highest speeds
- Aerodynamic and electromagnetic optimization for highest total efficiency
- Integrated temperature measurement for overload protection
- Compatible to converter CC-120-1000 or CC-230-3500



Specifications turbo compressor	
Maximum pressure ratio	1.65
Maximum mass flow	17 g/s
Isentropic overall efficiency <sup>1</sup>	58%
Maximum speed	280,000 rpm
Maximum electric motor power demand	700 W
Weight	1.5 kg

### **Compressor maps: overpressure operation**





<sup>&</sup>lt;sup>1</sup> Isentropic overall efficiency including aerodynamic, motor and bearing efficiency

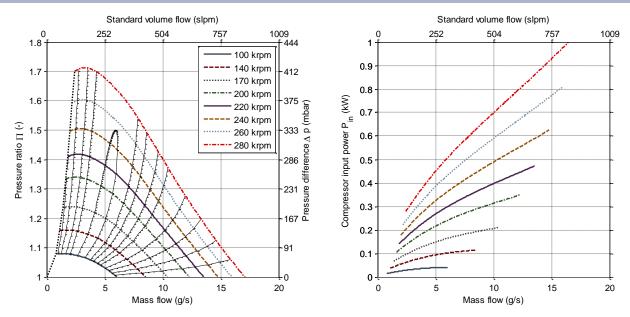
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#### **Compressor maps: vacuum operation**

#### Pressure ratio versus mass flow

#### Compressor input power versus mass flow



#### Order codes: CT-17-700.GBxx.Wxx

Bearing options GBxx		
GB01	Air bearing at ISO 8778 inlet conditions	
GB99	Custom specific gas bearing (inlet conditions and/or gas etc.)	

Winding options Wxx					
W01	Standard winding				
Ordering information		Article number			
CT-17-700.GF	301.W01 with CC-120-1000 (40 – 120 VDC)	4040001			

4040002

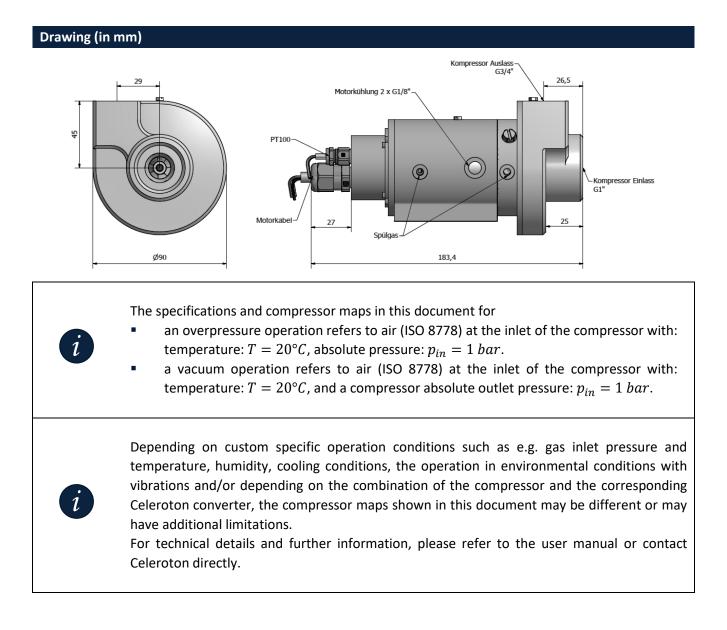
#### Accessories

Damper set for mounting in mobile application

CT-17-700.GB01.W01 with CC-230-3500 (230/110 VAC)

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