

CT-17-700.GB

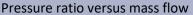
Highly compact, high-speed, electrically driven radial turbo compressor with gas bearing for the circulation and compression of various gases and refrigerants.

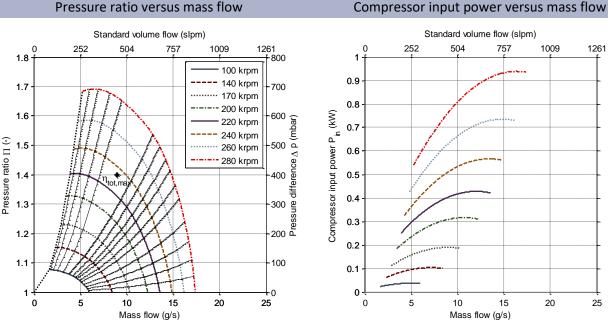
- High-speed gas bearings for oil-free operation
- Lowest ratio of volume and weight versus pressure and mass flow due to highest speeds
- Aerodynamic and electromagnetic optimization for highest total efficiency
- Integrated temperature measurement for overload protection
- Compatible to converter CC-120-1000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



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

Compressor maps: overpressure operation





¹ Isentropic overall efficiency including aerodynamic, motor and bearing efficiency

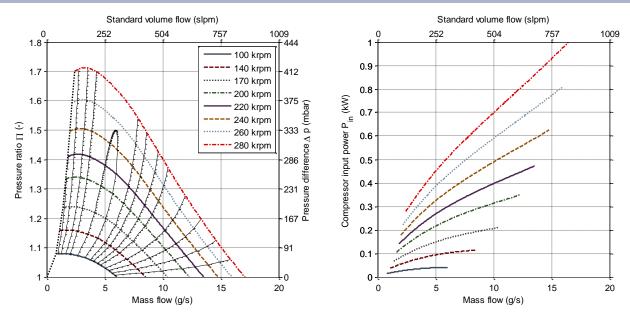
All rights reserved. All information in this document is based on Celeroton's best knowledge and is not to be considered as a warranty or quality specification. The information given is designed as a guidance and customers are requested to check the suitability and usability of the product in their specific application with consulting Celeroton. The information herein is subject to change without notification.

-Celeroton

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

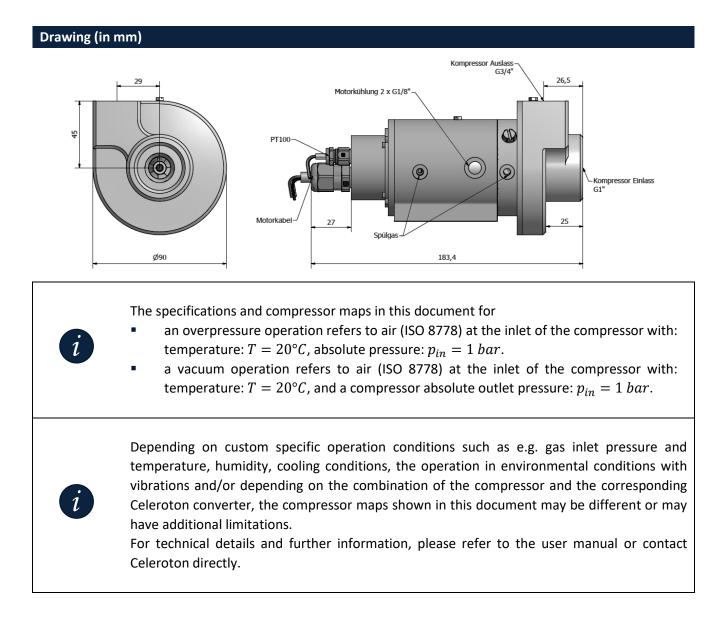
Accessories

Damper set for mounting in mobile application

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

All rights reserved. All information in this document is based on Celeroton's best knowledge and is not to be considered as a warranty or quality specification. The information given is designed as a guidance and customers are requested to check the suitability and usability of the product in their specific application with consulting Celeroton. The information herein is subject to change without notification.

-Celeroton



Celeroton AG | Industriestrasse 22 | 8604 Volketswil | Switzerland T: +41 44 250 52 20 | F: +41 44 250 52 29 | info@celeroton.com

All rights reserved. All information in this document is based on Celeroton's best knowledge and is not to be considered as a warranty or quality specification. The information given is designed as a guidance and customers are requested to check the suitability and usability of the product in their specific application with consulting Celeroton. The information herein is subject to change without notification.