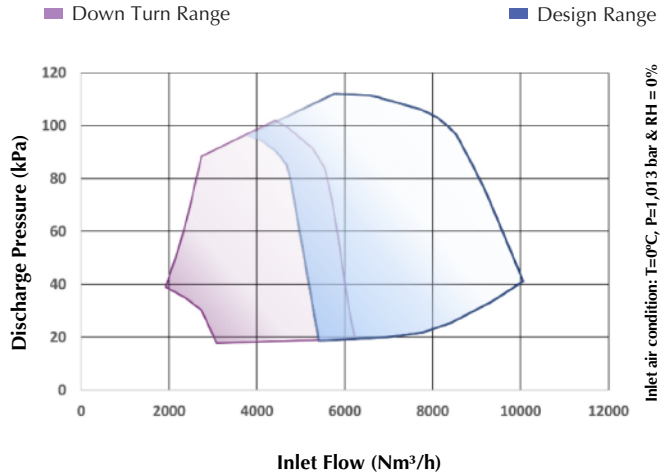




**MODEL-TCB-08**

**SINGLE STAGE TURBOCOMPRESSOR**



**Product info**

Compressor Type	Integrally geared single stage compressor
Medium	Air
Frame family	TCB08
GearBox	Vertical Split
	Single helical gears
	Ball bearings
	Forced lubrication
Control System	I – Inlet Guide Vanes
	O – Variable Diffuser Vanes
	CC – Combined Control (IGV + VDV)

**Material specification**

Volute Casing	Cast iron EN GJL-250
Casing	Cast iron EN GJL-250
Impeller	Aluminium alloy (2618A) or stainless steel
Vanes	Aluminium alloy, Stainless steel, Bronze
GearWheels	High tensile 18CrNiMo7
Fast Shaft	High tensile 18CrNiMo7
Drive Shaft	High tensile 34CrNiMo6
Bearings	High precision ceramic angular ball bearings
Base Frame	Deep groove ball bearings
Coupling	Flexible compact type

**Auxiliaries**

Inlet Filter/Silencer	95% filtration as per Filter Class EU G4 & baffle type silencer
IGV/VDV Actuation	Electric linear actuator
Expansion Joint	DN300/150 steel flanges with Stainless Steel or EPDM Bellows
Cone Diffuser	From DN150 to Outlet DN250/400
Blow-off-valve	DN 100, Electric actuated
Check valve	DN250/400, dual flap wafer type
Oil for Gearbox	Approx 45liters (ISO VG46)
Lube oil cooling	Air
Cooling Fan	IP55 50/60Hz

**Compressor Drive**

Drive	Electrical motor, 2-Pole
Motor Voltage	Low-medium
Input frequency	50/60 Hz
Motor speed	3000 rpm or 3600 rpm
Protection class	IP55

**Standar Quality**

Test Procedure	ISO 5389 & ASME PTC10
Mechanical Test	Internal Standard
Quality	ISO 9001



## MODEL-TCB-08

Single Stage Turbocompressor

### Dimensions (mm)

For special requirements of low sound level we apply inlet, outlet and blow-off silencers and make then special sound absorbing enclosure.



I: 1700 L: 3650 H: 1950

\* Enclosure dimensions may be adapted upon client specific noise requirements

### Performance data

Flow Regulation	See Performance chart
Flow Range	100% - 40% of rated flow with combined control
Pressure Range	0.4 to 1.0 bar (g)
Power Range	Up to 250 kW
Discharge Velocity	Below 20m/s after Cone
Vibration Level	Max. 2.8 mm/s per ISO 20816
Noise	90 db(A) Without enclosure 85 db(A) With standard enclosure 75 db(A) With high performance standard enclosure*

### Panels

Human Interface	Siemens KTP700 Basic 7"
Option	Siemens KTP1200 Basic 12"
Option	Allen Bradley Panel View Plus 7"
PLC	Siemens ET200 SP CPU
Option	Allen Bradley Compact Logix
Instrumentation	Air Pressure transmitter 4-20 mA Air Temperature transmitters 4-20 mA Bearing Temperature RTDs Oil Temperature transmitter and Alarm Switch Oil Pressure transmitter and Alarm Switch Oil Level Sight Glass Vibration Transmitter 4-20 mA Surge Switch Fast Shaft Bearing acceleration surveillance (in option)

- Values, dimensions and reference in this brochure are approximate and intended as a guide only -  
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