Heating Cabinets (Standard-types)

ConThermo-Box



Heating Cabinet "ConThermo-Box" - variable standard solution for heating drums and containers

ConThermo-Boxes are standardised heating cabinets based on an element construction of self-supporting wall- and roof elements.

Based on this specific construction a serial manufacturing is possible to comply with the high requests and demands of the industry.

ConThermo-Box for 2 x 200 l Drums

A. Drums state of the contract of the contr

The basic model can be designed by several versions and equipment variations or combinations of these.

Electronic temperature control and forced air circulation are obligatory.

ConThermo-Box for 4 x 200 | Drums or 1 x 1000 | Container

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And Prunns of 5 x 200 | Drums or 1 x 1000 | Container

The combination of serial manufactured basic construction and individual equipment variations results in a favourable cost effectiveness.

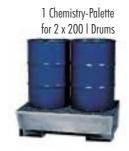


ConThermo-Boxes are mainly used for drums and containers.

But they are also suitable for other fields of application, like:

- drying of powder and granulate, etc.
- tempering of metal parts
- curing of rubber and plastic parts

- etc.







Design	ta: ConThermo-Box					
	Electric ConThermo-Box CBE			Steam ConThermo-Box CBD		
Heating	screw-in heating elements of stainless steel, AISI 321 (1.4541) within the air duct of the reverse side			Spiral ribbed pipe heating register of carbon steel -black condition within the air duct of the reverse side		
Energy	electricity			steam / hot water (thermal oil on request!)		
Temperature Control	- self optimizing digital temp. Controller (°C/°F) - temperature range selectable (up to 230°C) - digital indication for set point and acutal temp. value - temperature measurement by Pt100 - temperature cut-off (adjustable) 50 - 300°C - completely and ready wired for easy connection			 temperature controller (self operated) thermostat adjustable by scale 0 4 for temperature range 50 - 120°C or 70 - 150°C or others (on request!) analogue thermometer for actual inside temperature indication: 0 - 120°C or 0 - 200°C 		
Controls	terminal box - incl. all necessary control devices main connection 3 x 400 V/50 Hz			Fan controlled by motor protection switch IP 54 incl. signal lamps for "operation" and "fault" main connection 3 x 400 V/50 Hz		
Painting	2-component-varnish ruby-red (RAL 3003) - other colours also possible without additional cost					
Construction	- self supporting wall- and roof elements / profile framework for the roof area - cabinet on 4 feet of 100 mm height - steel sheets galvanized - insulated base construction (location area) load capacity 1200 kg - insulation 80 mm mineral wool - also bottom - insulated door with bolt door lock (openable also from inside) and silicone profile door sealing - solid door handels, consisting of plastic/alu, black, temperature- and weather resistant					
	2-Drums-Sys.	4.5				
Туре	CBE2	4-Drums-Sys. CBE4	8-Drums-Sys. CBE8	2-Drums-Sys. CBD2	4-Drums-Sys.	8-Drums-Sys.
Type	•	•		CBD2 2 x 200 Drums	· ·	CBD8 8 x 200 l Drums
	CBE2	CBE4 4 x 200 Drums or	CBE8 8 x 200 Drums	CBD2 2 x 200 Drums	CBD4 4 x 200 Drums or	CBD8 8 x 200 l Drums
Size Capacity Heat Surface	CBE2 2 x 200 l Drums	CBE4 4 x 200 Drums or 1 x 1000 Container 12 kW	8 x 200 Drums or 2 x 1000 Containers 24 kW	CBD2 2 x 200 Drums	CBD4 4 x 200 Drums or	CBD8 8 x 200 l Drums
Size	CBE2 2 x 200 l Drums	CBE4 4 x 200 Drums or 1 x 1000 Container	8 x 200 Drums or 2 x 1000 Containers	CBD2 2 x 200 l Drums s	4 x 200 Drums or 1 x 1000 Container	8 x 200 Drums or 2 x 1000 Container
Size Capacity Heat Surface Air-	CBE2 2 x 200 Drums 8 kW - 1 fan 0,55 kW 1900 m³/h	CBE4 4 x 200 Drums or 1 x 1000 Container 12 kW - 1 fan 0,55 kW 1900 m³/h	CBE8 8 x 200 Drums or 2 x 1000 Containers 24 kW - 2 fans, each 0,55 kW 1900 m³/h	CBD2 2 x 200 Drums 5 - 25 m ² 1 fan 0,55 kW 1900 m ³ /h	CBD4 4 x 200 Drums or 1 x 1000 Container - 40 m ² 1 fan 0,55 kW 1900 m ³ /h	CBD8 8 x 200 Drums or 2 x 1000 Container - 70 m ² 2 fans, each 0,55 kW 1900 m ³ /h
Capacity Heat Surface Air- Circulation	CBE2 2 x 200 l Drums 8 kW - 1 fan 0,55 kW 1900 m³/h at 289 Pa	CBE4 4 x 200 Drums or 1 x 1000 Container 12 kW - 1 fan 0,55 kW 1900 m³/h at 289 Pa	CBE8 8 x 200 Drums or 2 x 1000 Containers 24 kW - 2 fans, each 0,55 kW 1900 m³/h at 289 Pa	CBD2 2 x 200 l Drums 5 - 25 m ² 1 fan 0,55 kW 1900 m ³ /h at 289 Pa w x d x h (mm)	CBD4 4 x 200 Drums or 1 x 1000 Container - 40 m ² 1 fan 0,55 kW 1900 m ³ /h at 289 Pa	CBD8 8 x 200 Drums or 2 x 1000 Container - 70 m ² 2 fans, each 0,55 kW 1900 m ³ /h at 289 Pa w x d x h (mm)
Capacity Heat Surface Air- Circulation Dimensions	CBE2 2 x 200 Drums 8 kW - 1 fan 0,55 kW 1900 m³/h at 289 Pa w x d x h (mm)	CBE4 4 x 200 Drums or 1 x 1000 Container 12 kW - 1 fan 0,55 kW 1900 m³/h at 289 Pa w x d xh (mm)	CBE8 8 x 200 Drums or 2 x 1000 Containers 24 kW - 2 fans, each 0,55 kW 1900 m³/h at 289 Pa w x d x h (mm)	CBD2 2 x 200 Drums 2 x 200 Drums 2 5 m ² 1 fan 0,55 kW 1900 m ³ /h at 289 Pa w x d x h (mm) 1400 x 1000 x 1600 1570 x 1280 x 2025	CBD4 4 x 200 Drums or 1 x 1000 Container - 40 m ² 1 fan 0,55 kW 1900 m ³ /h at 289 Pa w x d x h (mm)	CBD8 8 x 200 Drums or 2 x 1000 Container - 70 m ² 2 fans, each 0,55 kW 1900 m ³ /h at 289 Pa



Options: ConThermo-Box				
A Interior Equipment				
A1 Roller Tracks	2 (4-drums-system) or 4 (8-drums-system) roller tracks side by side Roller track frame to be put on and fixed on the cabinet floor			
A2 Collection Trays	According to (German) law of environmental protection (WHG§19). Capacity 205 ltr With removable steel grid and ca. 100 mm heigh feet usable for forklift truck, carbon steel (3 mm thick), galvanized Dimensions (w x d x h) 1290 x 1211 x 250 mm Load capacity 1200 kg Guiding bars to place the tray at right position			
A3 Roller Tracks + Collecting Tray	Description as per option A1 and A2 Roller track frame construction to be put on top of the collecting tray			
B Exterior Equipment				
B1 Moisture Protection	Additional silicone sealant of the outer sheets (e.g.for erection outdoors - under shelter)			
B2 Weather Roofing	Weather roof covering cabinet top approx. 300 mm to all cabinet sides - provided with 4 screwed-on feet			
C Electric ConThermo-Box				
C1 Electronic Timer	LCD-indication / placed within the front sheet of the terminal box display guided operating instructions adjustable programme for daily and weekly application 4 years guaranteed standby			
C2 Temperature Recorder	Within the front sheet of the terminal box (temperature recorder) (detailed technical description on request!)			
C3 Safety Temperature Limiter	Electronic version for higher safety level (DIN 3440) - within the terminal box			
C4 Electric Flame Proof Design	for zones 1 $+$ 2 (T2 $=$ 300°C / T3 $=$ 200°C / T4 $=$ 135°C) (Technical details on request!)			
C5 Solid-State-Relays	Solid-State-Relay (SSR) as zero-voltage switch within the power circuit of the heating are favourable compared to common contactors - by: - higher frequency of operation (= temperature exactness) - no flasch-wear of contacts - long-life (= Reliability) > 10° switching			
D Steam ConThermo-Box				
D1 Safety Temperature Limiter	According to DIN 3440, self operated limit value 40 - 95°C or 70 - 120°C (special ranges on request!)			
D2 Temp. Controller (self operated) with separate setpoint adjustment	with °C-scale/°F-scale ranges 20 - 120°C or 50 - 150°C (special ranges on request!)			
D3 Steam Flame Proof Design	for zones 1 $+$ 2 (T2 $=$ 300°C / T3 $=$ 200°C / T4 $=$ 135°C) fan and motor protection switch flameproof design			
D4 Electronic Steam Controller	Control-valve and actuator-unit, electron. digital controller			
D5 Thermal-Oil Design	Also electronic controller for thermal-oil operation available - on request!			
				