

Heating - Ventilation - Air Conditioning
Heizung - Lüftung - Klimatechnik

The Rock among the Milestones

WK-com TB1: Cold Bridge-free Design



Spirit of Air



Do you know a better one?

Cold bridge-free design

WK-com TB1

The rock among the milestones

Our latest WK-com TB1 has been developed based on our approved and tested double-planked, weatherproof **WK-com N** series air handling unit.

Structural precision work has made it the perfect air handling unit for extreme applications thanks to its outstanding housing ratings.

Guaranteed quality: DIN, VDI and hygiene testing, member of the Herstellerverband RLT (German AHU Manufacturers Association)



1 Double doors

The construction of doors which permanently, i.e. even after being opened and closed many times, meets the required thermal and mechanical values is particularly sophisticated. The design with our double doors ensures absolute certainty these characteristics are met.

Decoupling the inner and outer door on one hand reduces sound propagation, and on the other hand increases insulation. This saves energy and makes the unit extremely quiet to operate.

The triple door seal significantly reduces leakage losses and contributes to energy-saving operation. The mounted seal on the frame of the inner door prevents condensation from leaking, like a tub.



Double doors

2 New internal locking

The extremely flat inner closure with sturdy metal housing is thermally separated from the inside of the unit, reducing leakage losses and thermal bridges.

The lock has a safety function preventing the door from opening on the discharge side.



Extremely flat, uncoupled inner lock

3 Sturdy design

The double-shell design (30 mm thick panels insulated with mineral wool inside, 50 mm thick PU cladding outside) yield outstanding thermal properties. The mechanical values such as housing leakage and deflection also meet the highest classes, D1 and L1.

The values of the housing soundproofing are equally high (see table).

4 Boarded corners

Corners and edges are also delicate areas in a thermally high-efficient air handling unit. Of course they need to ensure the required values long term, and in our experience they also have to be sturdy and tough against external influences.

We have therefore specifically insulated all corners and edges to prevent any thermal bridges, and have additionally faced the outside with profile sheets.

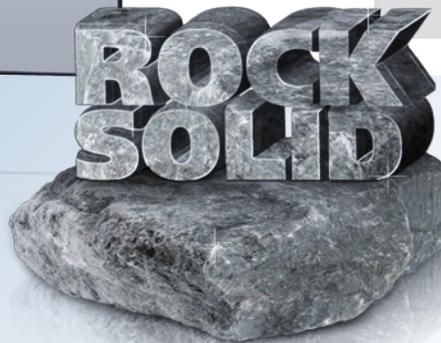


Cold bridge-free design

Advantages

Rock Solid

- ▶ TÜV certified to DIN EN 1886
- ▶ for indoor and outdoor installation
- ▶ double housing design
- ▶ best thermal values T1 / TB1
- ▶ best mechanical values L1 / D1
- ▶ no cold bridges



Profile

5 Details

Many detailed solutions prevent thermal bridges.

In the process special joints are used between the panels, and our design also allows the use of crane eyes for lifting the units.



Boarded corners, thermally separated screw fitting

Values as tested acc. to DIN EN 1886

Unit type Series	Insulating thickness [mm]	Insulating material	Housing leakage		Deflection		Filter bypass leakage		U kb		Housing soundproofing						
			+	-	+	-	+	-	+	-	125	250	500	1k	2k	4k	8k
			Kl	Kl	Kl	Kl	Kl	Kl	Kl	Kl	[dB]						
WK-com TB1	82.5	30 mineral wool 50 PU panels	L1	L1	D1	D1	F9	F9	T1	TB1	15.4	25.7	32.5	37	40.9	51.9	59.2



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