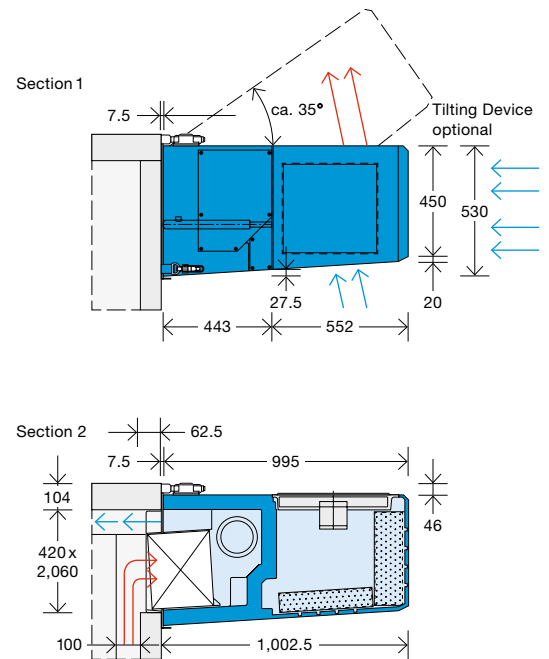
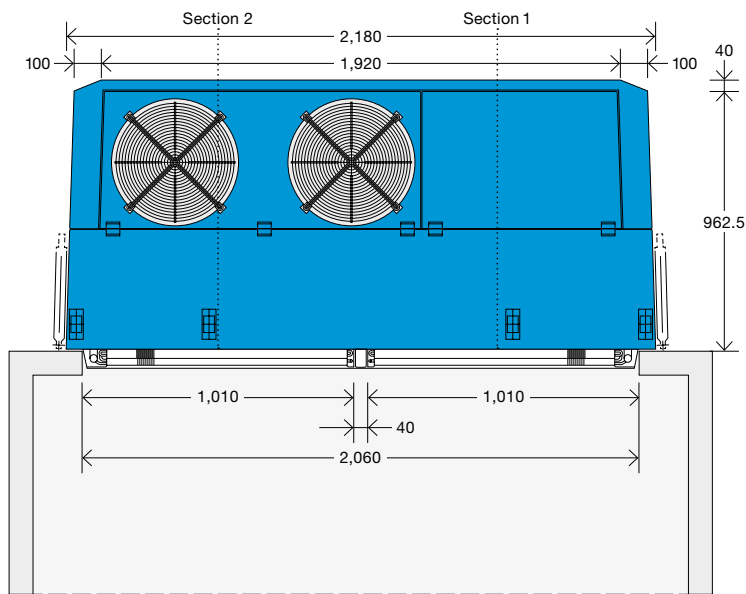


- 1 GRP housing:** Extremely robust, noise absorbing and lightweight. Patented tilting device saves up to 300 mm total height.
- 2 Crossflow fans across the entire width of the body:** Longest airthrow and constant maximum air volume of more than 8,500 m³/h. Uniform through-flow of the total vehicle box. Air discharge height only 100 mm, thus allowing double deck loading up to the bulkhead, 100% use of load space. Robust fan drive by direct-coupled 3-phase motors, no carbon brush or V-belt wear.
- 3 2 evaporators outside the body across the full vehicle width:** For the first time no additional evaporators needed for multi-temp operation in longitudinally divided bodies. No danger of damaging evaporators or goods during loading/unloading the vehicle.
- 4 Quick release fasteners:** Only one electrical plug-in connection. Automatically closing refrigerant couplings, also for additional connections for multi-temperature systems or additional cold holdover systems with eutectic beams. Unit exchanged within minutes, therefore increase of readiness for use up to 100%.
- 5 Independent defrosting of the evaporators within minutes:** No interruption of the cooling cycle and no additional energy consumption due to the powerful 4-way heat pump system.
- 6 Extremely large evaporator and condenser surface areas:** High efficiency, considerable extension of cooling periods between defrost cycles.
- 7 Considerable reduction of noise level** by more than 15 dB(A) = 95% thanks to large, low speed axial fans.
- 8 No failure-prone flexible refrigerant hoses:** Vibration-free alternator drive system. No thermal losses due to the waste heat of a built-in diesel engine.
- 9 Robust, long-life refrigeration compressor in noise-encapsulated housing, with oil pump:** Designed for R410A. High operational reliability and efficiency, speed range between 500 and 3,000 rpm. Unsurpassed volumetric efficiency, low energy consumption.
- 10 High capacity refrigerant R410A:** 20% less energy consumption and 80% less global warming potential. Highest refrigeration capacities, box temperatures down to -40°C, no reduced capacity with mains operation.
- 11 Special FRIGOBLOCK-designed electric motor with high reserve capacities:** Safe running over whole speed range. Large ball bearings, regreaseable for extremely long life-time.
- 12 Only one low wear, short, direct V-belt drive:** Straight belt runs using standard V-belts.
- 13 Compact FRIGOBLOCK inverter technology with electronic controller:**
 - Minimum 80% of the rated capacity at vehicle engine idle speed
 - Soft start of refrigeration machine and FRIGOBLOCK alternator
 - Possibility of optimised individual control of up to 8 three-phase-motors in the range of 500 to 2,500 rpm for compressor and fans at full or partial loads depending on the cooling and heating demands
 - Optimised operation of the water-cooled FRIGOBLOCK alternator in the complete speed range, producing a constant 400/500V/3ph/50Hz supply
 - Up to 75% less fuel consumption and 95% polluting emissions when applying the energy recovery mode (braking/accelerating).



TECHNICAL SPECIFICATIONS FK 25i

	2 evaporators	DIM.
Number of evaporators		
Refrigeration capacity at +30°C		
box temperature at ±0°C	14,500 / 23,300 / (26,000) **	W
box temperature at -20°C	7,900 / 13,700 / (16,000) **	W
Refrigeration capacity coefficient at +30°C		
box temperature at ±0°C	6.90 / 5.80 *	kWh/l
box temperature at -20°C	5.30 / 4.70 *	kWh/l
Heating capacity		
heat pump system up to	40,000	W
Refrigerant		
H-FC	R410A	
Compressor		
cylinder	4	
piston displacement	14.0–55.9 / (69.8) **	m³/h
rpm	500 / 2,000 / (2,500) **	1/min
Electric motor		
capacity	11	kW
Evaporator		
surface area	2 x 35	m²
crossflow fan Ø x L	2 x 864	mm
motor capacity	2 x 0.75	kW
air capacity	> 8,500	m³/h
air velocity	14–18	m/sec
air throw, without duct	10	m
Condenser		
surface area	72	m²
axial fan Ø	2 x 440	mm
3-phase-alternator		
capacity	30.0 / 37.5	kVA
Mains		
fuse protection (slow)	32	A
Weight		
refrigeration unit	410	kg
alternator	60	kg

* Average refrigeration capacity coefficient in energy save mode/standard inverter mode in kWh refrigeration per one litre of diesel fuel.

** Data in brackets for recuperation (braking/accelerating) mode without any fuel consumption at compressor speeds of 2,500 rpm.

Subject to technical changes without prior notice.