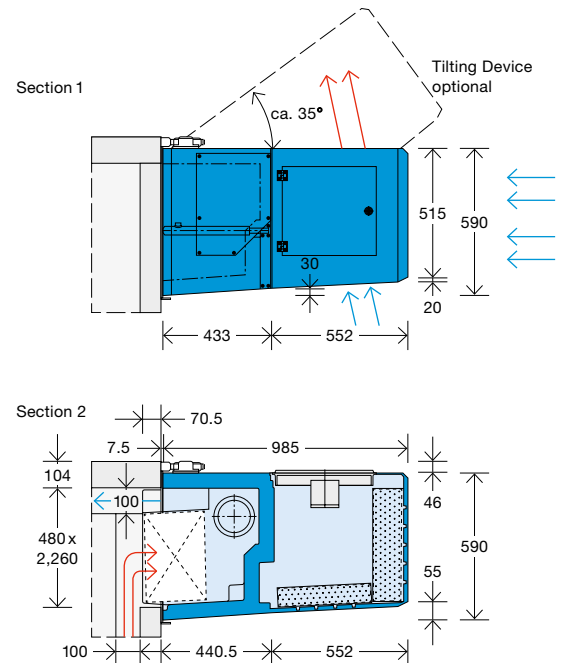
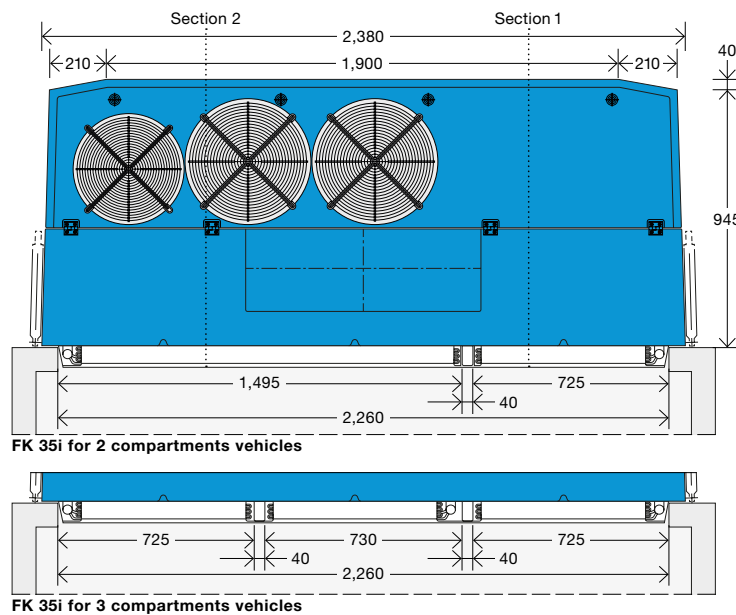


- 1 GRP housing:** Extremely robust, noise absorbing and lightweight. Patented tilting device saves up to 300 mm total height.
- 2 Crossflow fans across the entire width of the body:** Longest airthrow and constant maximum air volume of more than 10,000 m<sup>3</sup>/h. Uniform through-flow of the total 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 Up to 3 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 35i**

	<b>2 evaporators</b>	<b>3 evaporators</b>	<b>DIM.</b>
<b>Number of evaporators</b>			
<b>Refrigeration capacity at +30°C</b>			
box temperature at ±0°C	18,000 / 28,500 / (32,000) **	18,000 / 28,500 / (32,000) **	<b>W</b>
box temperature at -20°C	11,000 / 19,000 / (22,000) **	11,000 / 19,000 / (22,000) **	<b>W</b>
<b>Refrigeration capacity coefficient at +30°C</b>			
box temperature at ±0°C	7.70 / 6.60 *	7.70 / 6.60 *	<b>kWh/l</b>
box temperature at -20°C	5.90 / 5.20 *	5.90 / 5.20 *	<b>kWh/l</b>
<b>Heating capacity</b>			
heat pump system up to	40,000	40,000	<b>W</b>
<b>Refrigerant</b>			
H-FC	R410A	R410A	
<b>Compressor</b>			
cylinder	4	4	
piston displacement	19.5–78.0 / (97.5) **	19.5–78.0 / (97.5) **	<b>m³/h</b>
rpm	500 / 2,000 / (2,500) **	500 / 2,000 / (2,500) **	<b>1/min</b>
<b>Electric motor</b>			
capacity	15	15	<b>kW</b>
<b>Evaporator</b>			
surface area	27 + 60	3 x 27	<b>m²</b>
crossflow fan Ø x L	620 + 1,340	3 x 620	<b>mm</b>
motor capacity	0.75 + 1.5	3 x 0.75	<b>kW</b>
air capacity	> 10,000	> 10,000	<b>m³/h</b>
air velocity	14–18	14–18	<b>m/sec</b>
air throw, without duct	10	10	<b>m</b>
<b>Condenser</b>			
surface area	82	82	<b>m²</b>
axial fan Ø	2 x 440 + 386	2 x 440	<b>mm</b>
<b>3-phase-alternator</b>			
capacity	30.0 / 37.5	30.0 / 37.5	<b>kVA</b>
<b>Mains</b>			
fuse protection (slow)	32	32	<b>A</b>
<b>Weight</b>			
refrigeration unit	450	480	<b>kg</b>
alternator	60	60	<b>kg</b>

\* 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.