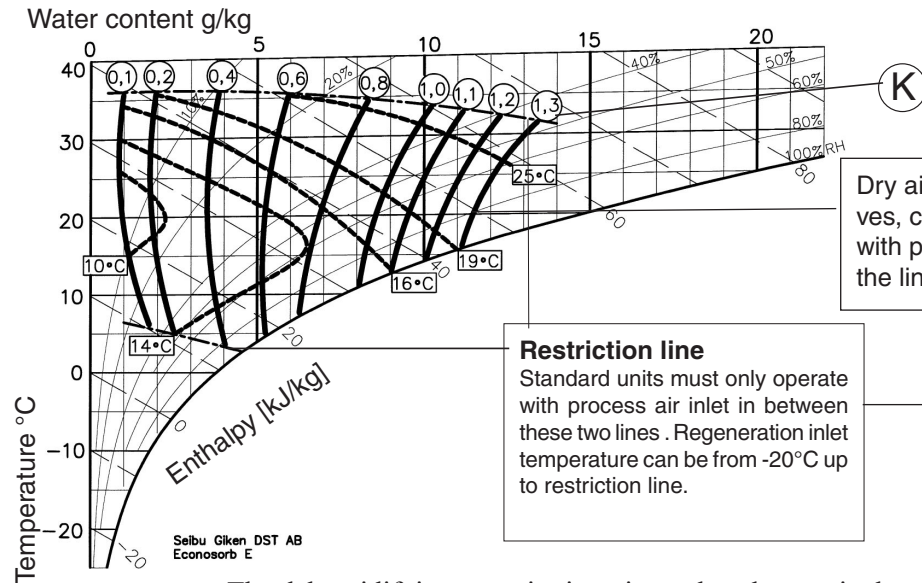


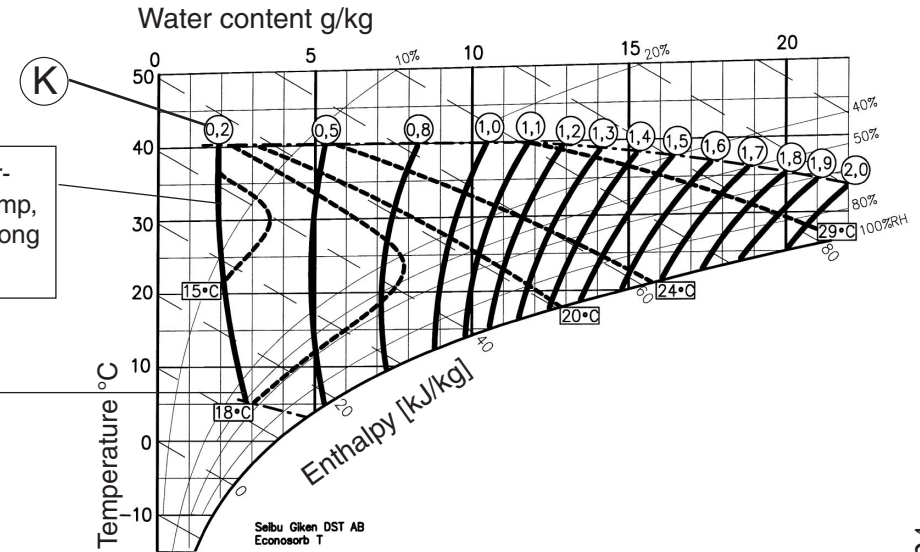
## Correction diagram for Econosorb European climate (E)



Dry air temperature curves, constant dry air temp, with process air inlet along the line.

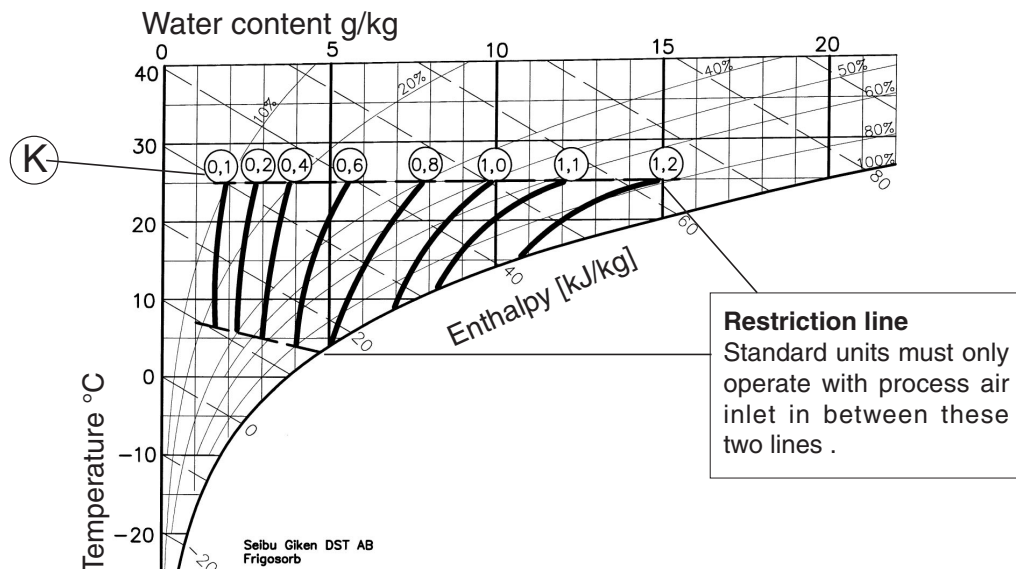
**Restriction line**  
Standard units must only operate with process air inlet in between these two lines. Regeneration inlet temperature can be from -20°C up to restriction line.

## Correction diagram for Econosorb Tropical climate (T)



The dehumidifying capacity is estimated as the nominal capacity from the table (on the reverse side of this document), multiplied by the factor (K) from the correction diagram. The dry air temperature for Econosorb is calculated from the above diagrams.

## Correction diagram for Frigosorb



**Restriction line**  
Standard units must only operate with process air inlet in between these two lines.

The dehumidifying capacity is estimated as the nominal capacity from the table (on the reverse side of this document), multiplied by the factor (K) from the correction diagram. For inlet conditions of 20°C/60%RH, the data given is correct for all models. For all other inlet conditions, the correction factor can vary ±10% for different size units.

The dry air temperature for Frigosorb is calculated with help from the below formula and with the K-factor from the diagram for Frigosorb.

$$t_{out} = t_{in} + (K * 4) + 6$$

Subject to change without notice.



# Flexisorb Flexisorb Flexisorb Flexisorb Flexisorb

Recusorb - with internal heat recovery for good energy efficiency						
Unit	Min process airflow	Max process airflow	Max wet airflow	Heater power	2 g/kg from 10C/100%RH *	Heater power *
RF-081	900 m3/h	4 500 m3/h	900 m3/h	8+8+8=24kW	2 500 m3/h	22 kW
RF-101	1 500 m3/h	7 000 m3/h	1 900 m3/h	24+12+6=42kW	3 600 m3/h	31 kW
RF-102	3 000 m3/h	9 700 m3/h	2 900 m3/h	40+20+10=70kW	6 500 m3/h	54 kW
RF-122	4 800 m3/h	15 600 m3/h	5 400 m3/h	64+32+16=112kW	10 600 m3/h	88 kW
RF-152	7 600 m3/h	24 800 m3/h	7 300 m3/h	100+50+25=175kW	16 800 m3/h	140 kW
RF-172	9 700 m3/h	31 500 m3/h	9 300 m3/h	226kW	21 300 m3/h	177 kW
RF-192	12 000 m3/h	39 900 m3/h	11 800 m3/h	288kW	27 100 m3/h	225 kW
RF-222	16 000 m3/h	51 300 m3/h	15 100 m3/h	368kW	34 800 m3/h	289 kW
RF-242	19 000 m3/h	61 100 m3/h	18 000 m3/h	438kW	41 500 m3/h	345 kW

\* Process air flow to have dry air at 33C / 2g/kg with: - process air inlet 10C / 100%RH  
 - wet air inlet at 30C / 12 g/kg - wet air flow 36% of process air flow  
 - regeneration temperature 140C - purge by-pass

Consorb 75/25 - for large differences in moisture content between process and regeneration inlet						
Unit	Min process airflow	Max process airflow	Max wet airflow	Heater power	2 g/kg from 10C/100%RH *	Heater power *
CF-081 75/25	1 000 m3/h	4 500 m3/h	900 m3/h	8+8+8=24kW	2 400 m3/h	24 kW
CF-101 75/25	2 000 m3/h	7 000 m3/h	1 900 m3/h	24+12+12=48kW	3 900 m3/h	39 kW
CF-102 75/25	3 700 m3/h	9 700 m3/h	2 900 m3/h	40+20+10+10=80kW	7 800 m3/h	75 kW
CF-122 75/25	6 000 m3/h	15 600 m3/h	5 400 m3/h	64+32+16+16=128kW	12 700 m3/h	123 kW
CF-152 75/25	9 500 m3/h	24 800 m3/h	7 300 m3/h	100+50+25+25=200kW	20 000 m3/h	193 kW
CF-172 75/25	12 000 m3/h	31 500 m3/h	9 300 m3/h	260kW	25 000 m3/h	241 kW
CF-192 75/25	15 000 m3/h	39 900 m3/h	11 800 m3/h	330kW	32 000 m3/h	308 kW
CF-222 75/25	19 000 m3/h	51 300 m3/h	15 100 m3/h	420kW	42 000 m3/h	404 kW
CF-242 75/25	23 000 m3/h	61 100 m3/h	18 000 m3/h	500kW	50 000 m3/h	481 kW

\* Process air flow to have dry air at 36C / 2g/kg with: - process air inlet 10C / 100%RH  
 - wet air flow at 33C / 23 g/kg - wet air flow 26% of process air flow  
 - regeneration temperature 140C

Consorb 60/40 - when low-cost energy at low temperatures is available				
Unit	Regen. temp 45C *	Regen. temp 70C **	Regen. temp 90C ***	
CF-081 60/40	1 800 m3/h	2 100 m3/h	2 000 m3/h	* Process air flow to have dry air at 6 g/kg with regeneration temperature 45C.
CF-101 60/40	2 900 m3/h	3 300 m3/h	3 200 m3/h	** Process air flow to have dry air at 4 g/kg with regeneration temperature 70C.
CF-102 60/40	5 700 m3/h	6 500 m3/h	6 300 m3/h	*** Process air flow to have dry air at 3 g/kg with regeneration temperature 90C.
CF-122 60/40	9 300 m3/h	10 600 m3/h	10 300 m3/h	For all Consorb 60/40 data: Process air and regeneration air inlet at 20C / 60%RH / 8,7g/kg. Wet air flow 2/3 of process airflow.
CF-152 60/40	14 700 m3/h	16 800 m3/h	16 200 m3/h	
CF-172 60/40	18 700 m3/h	21 300 m3/h	20 700 m3/h	
CF-192 60/40	23 700 m3/h	27 000 m3/h	26 200 m3/h	
CF-222 60/40	30 400 m3/h	34 700 m3/h	33 600 m3/h	
CF-242 60/40	36 200 m3/h	41 300 m3/h	40 100 m3/h	



Technical data on Flexisorb units from Seibu Giken DST AB.  
[www.dst-sg.com](http://www.dst-sg.com)

Subject to change without notice.

Recusorb dp - for low dewpoints, one pushing fan for both dry air and wet air						
Unit	Dew point -30C *	Heater power *	Dew point -50C **	Heater power **	Dew point -65C ***	Heater power ***
RF-081 dp	900 m3/h	11 kW	400 m3/h	5 kW	400 m3/h	6 kW
RF-101 dp	1 400 m3/h	17 kW	700 m3/h	9 kW	700 m3/h	10 kW
RF-102 dp	2 900 m3/h	36 kW	1 400 m3/h	15 kW	1 400 m3/h	20 kW
RF-122 dp	4 700 m3/h	58 kW	2 300 m3/h	29 kW	2 300 m3/h	33 kW
RF-152 dp	7 600 m3/h	94 kW	3 800 m3/h	47 kW	3 800 m3/h	54 kW
RF-172 dp	9 600 m3/h	119 kW	4 800 m3/h	60 kW	4 800 m3/h	69 kW
RF-192 dp	12 200 m3/h	151 kW	6 100 m3/h	76 kW	6 100 m3/h	87 kW
RF-222 dp	15 700 m3/h	195 kW	7 800 m3/h	97 kW	7 800 m3/h	111 kW
RF-242 dp	18 700 m3/h	232 kW	9 300 m3/h	115 kW	9 300 m3/h	133 kW

\* Dry airflow to have dry air at -30C dp with air inlet at 8C/100%RH. Regeneration temperature 140C  
 \*\* Dry airflow to have dry air at -50C dp with air inlet at 5C/100%RH. Regeneration temperature 140C  
 \*\*\* Dry airflow to have dry air at -65Cdp with air inlet at 5C/100%RH. Zeolite rotor. Regeneration temperature 180C  
 For all Recusorb dp: Wet air flow 1/2 of process air flow.

Econosorb - The most energy efficient dehumidifier. Low dry air temperature.					
Unit	Process air flow	Capacity *	Delta-x **	Compr. power	Total power
EF-081E	1 400 m3/h	10,7 kg/h	8,3 g/kg	3,5 kW	4,1 kW
EF-101E	2 400 m3/h	17,4 kg/h	7,9 g/kg	4,5 kW	6,0 kW
EF-102E	4 000 m3/h	30,0 kg/h	8,1 g/kg	7,8 kW	10,3 kW
EF-122E	6 400 m3/h	47,0 kg/h	8,0 g/kg	13,3 kW	17,7 kW
EF-152E	9 000 m3/h	65,0 kg/h	7,8 g/kg	18,4 kW	24,5 kW
EF-172E	10 500 m3/h	78,0 kg/h	8,0 g/kg	23,4 kW	28,9 kW
EF-192E	12 000 m3/h	93,0 kg/h	8,4 g/kg	27,9 kW	34,5 kW
EF-222E	15 000 m3/h	115,0 kg/h	8,3 g/kg	36,8 kW	46,2 kW
EF-242E	18 700 m3/h	148,0 kg/h	8,6 g/kg	47,4 kW	59,5 kW
EF-081T	1 300 m3/h	10,5 kg/h	13,5 g/kg	4,3 kW	4,9 kW
EF-101T	2 500 m3/h	18,5 kg/h	12,3 g/kg	7,4 kW	8,6 kW
EF-102T	2 900 m3/h	22,0 kg/h	12,6 g/kg	8,8 kW	10,2 kW
EF-122T	3 400 m3/h	28,0 kg/h	13,7 g/kg	11,2 kW	13,0 kW
EF-152T	6 000 m3/h	49,0 kg/h	13,6 g/kg	17,5 kW	21,6 kW
EF-172T	7 600 m3/h	62,0 kg/h	13,6 g/kg	23,9 kW	29,6 kW
EF-192T	11 500 m3/h	96,0 kg/h	13,9 g/kg	37,0 kW	45,8 kW

E- for European climate. T - for tropical climate  
 Wet air flow controlled to have constant condenser pressure in the heat-pump, lowest (winter) is half of process air, highest (summer) is double the process air on E-versions, 3 times on Tropical version  
 \* at 20C/60%RH for both process air and regeneration air, for other climates please refer to correction diagram  
 \*\* at 30C / 14g/kg for E versions, at 33C / 22 g/kg for T versions

Frigosorb - Energy efficient dehumidifier with no need to extract wet air, only condensation				
Unit	Air flow	Capacity *	Compressor power	Total power
FF-81	3 700 m3/h	10,2 kg/h	4,2 kW	5,7 kW
FF-101	5 200 m3/h	14,4 kg/h	5,9 kW	8,0 kW
FF-102	7 400 m3/h	17,0 kg/h	7,0 kW	9,5 kW
FF-122	12 000 m3/h	28,0 kg/h	9,5 kW	14,4 kW
FF-152	20 900 m3/h	50,0 kg/h	21,0 kW	32,9 kW
FF-172	26 600 m3/h	63,0 kg/h	26,5 kW	41,5 kW
FF-192	33 700 m3/h	80,0 kg/h	33,6 kW	52,6 kW

\* at 20C / 60%RH, for other climates please refer to correction diagram