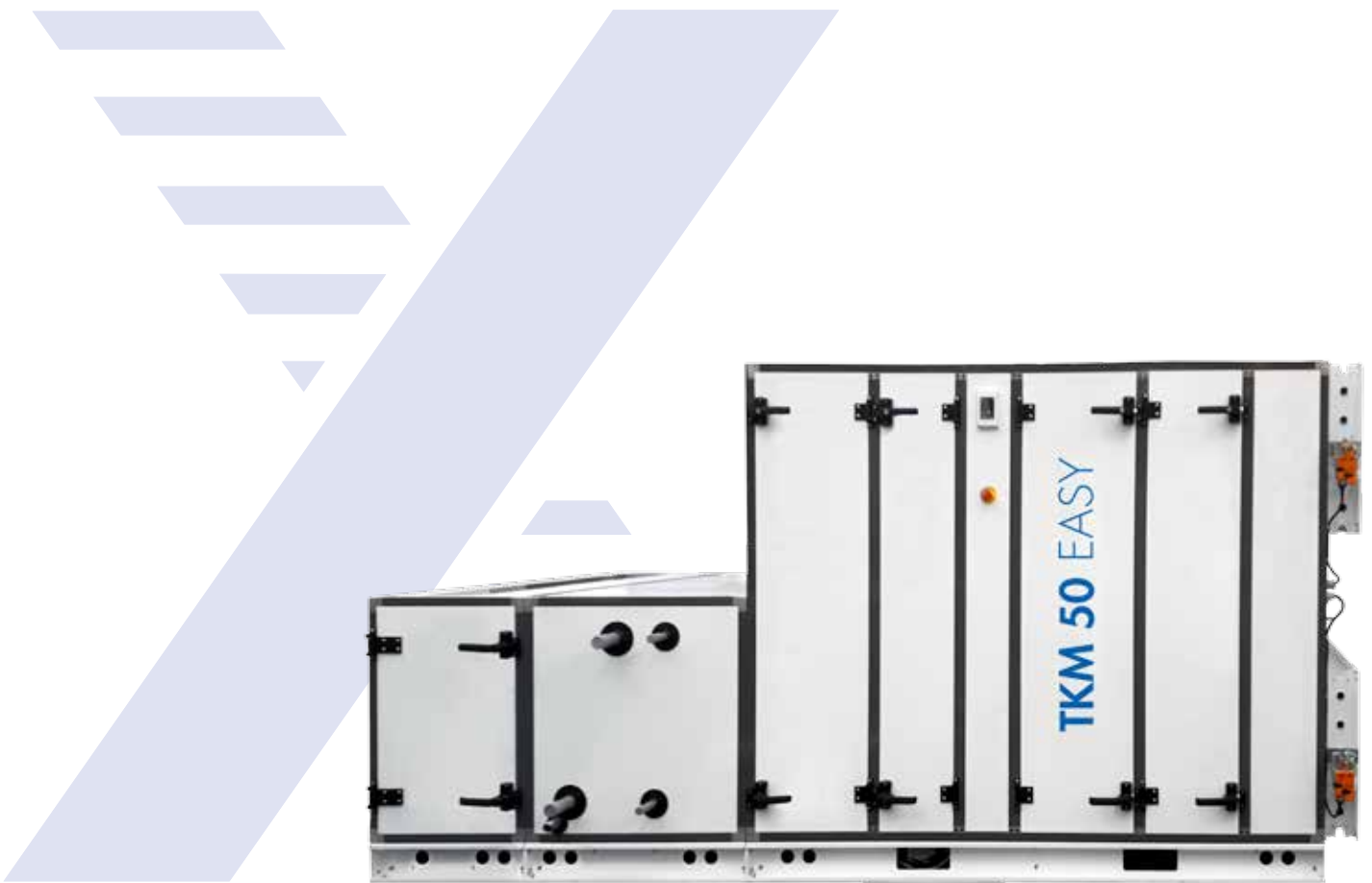


Quick Selection Guide

TKM 50 EASY



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The art of handling air

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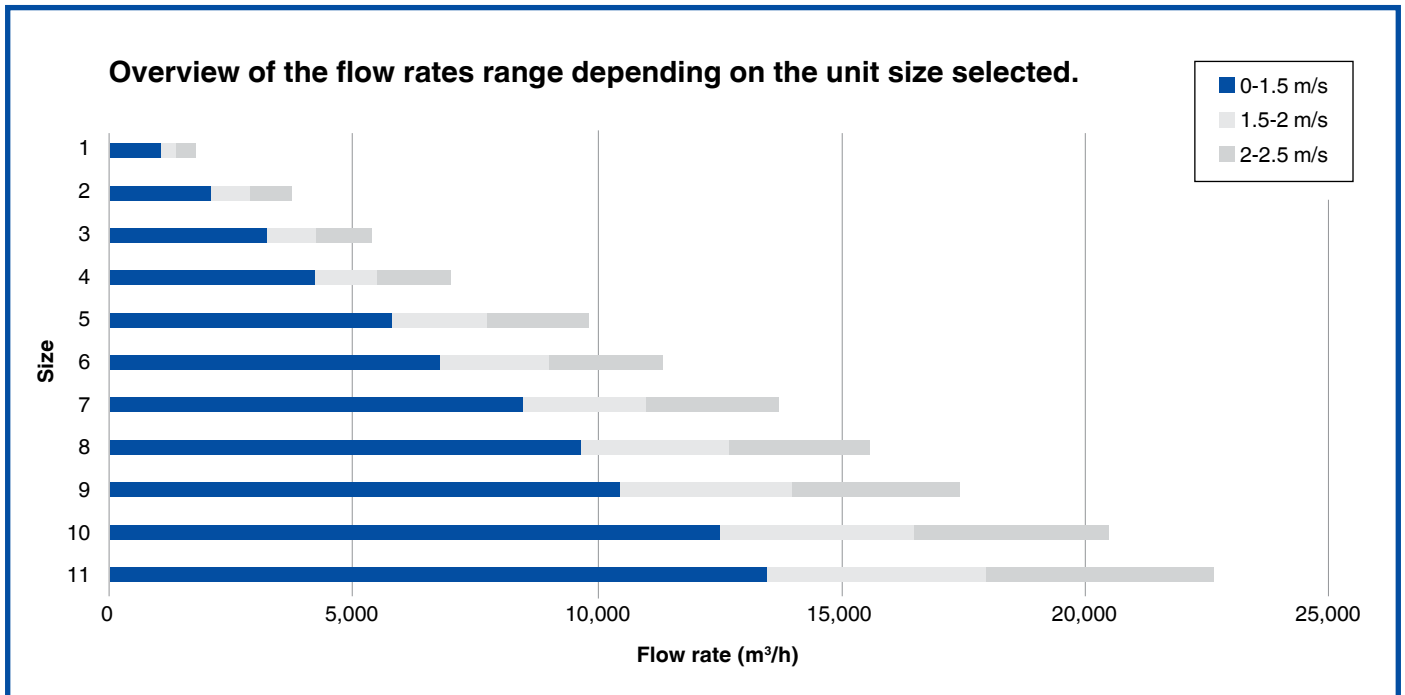
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Technical Data	4
Flow Rates Range	4
Cooling Coils	5
Heating Coils	6
Dimensions	7
Order Code	8
Order Example	8
Prices List	10
Central Module	10
Accessories	11
Coil+Filter	11
Coil Only	12
Filter Only	13

Flow Rates Range



Coil face velocity				
Size	1.5 m/s	2 m/s	2.5 m/s	ErP flow rate, approx. 2018
1	1,075	1,400	1,780	1,550
2	2,100	2,900	3,750	3,100
3	3,250	4,250	5,400	5,400
4	4,250	5,500	7,025	6,600
5	5,800	7,750	9,825	8,500
6	6,800	9,000	11,350	11,350
7	8,500	11,000	13,750	12,600
8	9,700	12,700	15,600	14,900
9	10,500	14,000	17,450	16,000
10	12,500	16,500	20,500	19,000
11	13,500	18,000	22,650	22,650

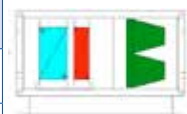
Central Module

Size	1	2	3	4	5	6	7	8	9	10	11
Width (mm)	860	1,340	1,340	1,650	1,650	1,920	1,920	2,120	2,320	2,320	2,550
Height* (mm)	1,340	1,400	1,770	1,770	2,320	2,320	2,500	2,500	2,500	2,865	3,190
Length (mm)	1,970	1,970	2,250	2,230	2,350	2,350	2,350	2,450	2,450	2,915	2,955
Weight (kg)	444	602	783	924	1,108	1,299	1,423	1,582	1,671	2,274	2,705



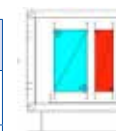
Coil+Filter

Size	1	2	3	4	5	6	7	8	9	10	11
Width (mm)	860	1,340	1,340	1,650	1,650	1,920	1,920	2,120	2,320	2,320	2,550
Height* (mm)	740	800	980	980	1,230	1,230	1,410	1,410	1,410	1,595	1,595
Length (mm)	1,360	1,360	1,360	1,360	1,360	1,360	1,360	1,360	1,360	1,360	1,360
Weight (kg)	225	329	373	466	577	634	706	797	808	860	936



Coil Only

Size	1	2	3	4	5	6	7	8	9	10	11
Width (mm)	860	1,340	1,340	1,650	1,650	1,920	1,920	2,120	2,320	2,320	2,550
Height* (mm)	740	800	980	980	1,230	1,230	1,410	1,410	1,410	1,595	1,595
Length (mm)	890	890	890	890	890	890	890	890	890	890	890
Weight (kg)	176	256	307	357	428	473	535	575	615	629	646



Filter Only

Size	1	2	3	4	5	6	7	8	9	10	11
Width (mm)	860	1,340	1,340	1,650	1,650	1,920	1,920	2,120	2,320	2,320	2,550
Height* (mm)	740	800	980	980	1,230	1,230	1,410	1,410	1,410	1,595	1,595
Length (mm)	560	560	560	560	560	560	560	560	560	560	560
Weight (kg)	91	136	151	181	233	257	279	328	355	378	405



*Including socket
The weights shown in the tables are approximate.

Technical Data

Cooling Coil

Cooling Coil
Air conditions: 32°C/40%
Water conditions: 7°C-12°C

Cooling Coil
Air conditions: 29°C/60%
Water conditions: 7°C-12°C

Cooling Coil
Air conditions: 27°C/50%
Water conditions: 7°C-12°C

Size	Flow Rate (m ³ /h)	No. of Rows	Maximum cooling capacity (kw)	Output Cond. (°C/%HR)
1	1,500	4	10.3	16.2/91.1
		6	13.49	13.0/96.8
		8	15.24	11.5/98.6
2	3,100	4	22.22	15.7/91.1
		6	27.64	13.1/96.7
		8	31.55	11.4/98.6
3	5,400	4	36.13	16.3/89.9
		6	45.56	13.7/96.2
		8	52.89	11.9/98.4
4	6,600	4	45.17	16.1/90.4
		6	57.09	13.5/96.4
		8	65.71	11.7/98.5
5	8,500	4	60.11	16.1/90.4
		6	75.46	13.5/96.4
		8	86.4	11.7/98.5
6	11,350	4	75.9	15.8/91.0
		6	96.04	13.2/96.7
		8	111.55	11.5/98.6
7	12,600	4	87.25	16.3/90
		6	111.06	13.3/96.6
		8	126.45	11.6/98.5
8	14,900	4	103.2	16.0/90.7
		6	129.27	13.4/96.4
		8	147.21	11.8/98.5
9	16,000	4	111.05	16.0/90.6
		6	139.88	13.4/96.5
		8	159.6	11.7/98.6
10	19,000	4	130.24	16.1/90.5
		6	163.94	13.5/96.4
		8	189.59	11.7/98.6
11	22,650	4	150.32	16.4/89.9
		6	191.09	13.7/96.2
		8	219.96	12.0/98.4

Maximum cooling capacity (kw)	Output Cond. (°C/%HR)
11.72	16.3/95.9
15.35	13.4/99.0
17.36	11.7/99.6
24.49	16.2/95.8
31.17	13.6/98.9
35.64	11.8/99.6
40.74	16.7/95.4
51.76	14.1/98.7
59.92	12.3/99.6
50.98	16.5/95.5
64.94	13.8/98.9
73.98	12.2/99.6
67.74	16.2/95.9
85.42	13.6/98.9
98.01	11.8/99.6
86.19	16.6/95.4
108.87	14.1/98.6
124.96	12.4/99.6
98.15	16.4/95.7
125.31	13.7/98.9
143.43	12.0/99.6
114.57	16.5/95.5
145.79	13.9/98.8
167.63	12.1/99.6
123.7	16.4/95.7
157.77	13.8/98.8
182.66	11.9/99.6
144.08	16.6/95.6
185.15	14.0/98.7
214.25	12.1/99.6
168.45	16.8/95.3
214.47	14.3/98.6
249.91	12.4/99.6

Maximum cooling capacity (kw)	Output Cond. (°C/%HR)
8.12	14.7/93.4
10.55	12.5/97.6
12.32	10.9/99.0
16.65	14.8/93.3
22.0	12.4/97.6
25.29	11.0/99.0
28.47	15.0/92.4
36.41	12.8/97.2
42.07	11.4/98.8
35.45	14.9/92.8
45.45	12.7/97.3
52.6	11.2/98.9
47.57	14.6/92.8
60.01	12.4/97.6
69.13	11.0/99.0
59.98	15.0/92.4
75.7	12.9/97.1
88.16	11.5/98.9
69.11	14.7/93.1
86.86	12.6/97.5
101.28	11.1/98.9
79.96	14.9/92.9
102.89	12.6/97.4
117.89	11.3/98.9
87.08	14.8/93.0
111.07	12.6/97.4
128.7	11.1/98.9
102.74	14.8/92.9
130.62	12.7/97.3
150.14	11.3/98.9
119.34	15.0/92.5
149.62	13.0/97.1
176.16	11.4/98.9

Heating Coil

Heating Coil
Air conditions: 4°C/80%
Water conditions: 50°C-40°C

Heating Coil
Air conditions: 16°C/50%
Water conditions: 50°C-40°C

Size	Flow Rate (m ³ /h)	No. of Rows	Maximum heating capacity (kw)	Output Cond. (°C/%HR)
1	1,500	2	11.65	26.9/18.2
		3	14.44	32.4/13.3
2	3,100	2	23.26	26.1/19.1
		3	31.15	33.6/12.4
3	5,400	2	38.46	25.0/20.4
		3	51.79	32.3/13.3
4	6,600	2	49.79	26.2/18.9
		3	62.92	32.1/13.5
5	8,500	2	63.43	26.0/19.2
		3	84.98	33.5/12.5
6	11,350	2	82.47	25.4/19.9
		3	108.85	32.3/13.4
7	12,600	2	94.43	26.1/18.9
		3	122.54	32.7/13.1
8	14,900	2	112.58	26.3/18.9
		3	146.62	33.0/12.8
9	16,000	2	117.55	25.7/19.6
		3	152.4	32.1/13.5
10	19,000	2	138.44	25.5/19.8
		3	185.32	32.7/13.0
11	22,650	2	163.78	25.3/20.0
		3	217.59	32.3/13.3

Maximum heating capacity (kw)	Output Cond. (°C/%HR)
8.15	32.0/19.1
10.47	36.5/14.8
16.13	31.3/19.8
20.71	35.6/15.6
27.0	30.7/20.5
35.87	35.5/15.7
33.38	30.9/20.3
44.63	35.9/15.9
44.84	31.5/19.6
60.58	36.9/14.5
58.17	31.1/20.1
76.04	35.7/15.5
66.67	31.5/19.6
85.86	36.0/15.2
75.49	30.9/20.3
104.03	36.5/14.8
83.56	31.3/19.8
113.04	36.7/14.6
100.51	31.5/19.6
132.54	36.5/14.8
116.06	31.1/20.1
153.76	35.9/15.3

Order code

T / 02 / S3 / R1 / E1C / 6 / 6 / 7 / 6 / 2 / 0 / Z40 / 0 / HE / 1 / 1 / 0 / 0 / 2 / 0 / RR

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

1 Template

T: Wheel heat recovery, no recirculation
R: Wheel heat recovery, with recirculation

2 Size

From 01 up to 11

3 Supply fan

S1: Smaller-size option
S2: Painted smaller-size option
S3: Bigger-size option
S4: Painted bigger-size option

4 Return fan

R1: Smaller-size option
R2: Painted smaller-size option
R3: Bigger-size option
R4: Painted bigger-size option

5 Type, size and speed control of the recovery system

E1C: Enthalpic, smaller size, constant rotation speed
E1V: Enthalpic, smaller size, variable flow rate
E2C: Enthalpic, bigger size, constant rotation speed
E2V: Enthalpic, bigger size, variable flow rate
S1C: Sensitive, smaller size, constant rotation speed
S1V: Sensitive, smaller size, variable flow rate
S2C: Sensitive, bigger size, constant rotation speed
S2V: Sensitive, bigger size, variable flow rate
N1C: Sorption, smaller size, constant rotation speed
N1V: Sorption, smaller size, variable flow rate
N2C: Sorption, bigger size, constant rotation speed
N2V: Sorption, bigger size, variable flow rate

6 New fresh air filter

6: ePM 10 75% as per ISO16890
7: ePM 1 65% as per ISO16890

7 Return filter

6: ePM 10 75% as per ISO16890
7: ePM 1 65% as per ISO16890

8 Final filter

6: ePM 1 65% as per ISO16890
7: ePM 1 85% as per ISO16890

9 Cooling coil

0: No coil
4: 4-row cooling coil
6: 6-row cooling coil
8: 8-row cooling coil

10 Heating coil

0: No coil
2: 2-row heating coil
3: 3-row heating coil

11 Control and electrical panel

* Check options on the following page

12 Connections and actuators in outdoor air, extraction and recirculation

0: Without dampers or frame, just the gap
Z04: Dampers with manual adjustment
Z40: Dampers prepared for a motor
24: Dampers with on-off actuators
24P: Dampers with proportional actuators

13 Finish

I: Indoors
0: Outdoors

14 Execution

HE: TKM 50 HE EU
N: TKM 50 N EU

15 Return and new fresh air filter accessories

0: No accessories. Only tapings
1: Manometer/pressure probe
2: Pressure switch

16 Fan regulation accessories

0: No accessories. Only tapings
1: Pressure probe
2: Constant pressure regulator
3: Constant flow-rate regulator

17 Fans' electrical protection

0: No electrical protection
1: Load break switch
2: Emergency switch

18 Closure and inner plate material

0: Galvanised steel
1: Precoated inner plate and painted closure plates
2: Stainless steel closure and inner plates

19 Lighting

0: No lighting
1: Lighting in the fans section
2: Lighting in the fans section and accesses

20 Base frame execution

0: Galvanised steel
1: Painted steel

21 Access and connection sides

RR: Connections and accesses on side 1
RL: Connections on side 1 and accesses on side 2
LR: Connections on side 2 and accesses on side 1
LL: Connections and accesses on side 2

11 Control and electrical panel

00: No control or electrical panel

01: Electrical panel only, no differential switch. No control.

02: Electrical panel only, with differential switch. No control.

AA: Control and electrical panel. No differential switch. Temperature only, without CO₂

BA: Control and electrical panel. With differential switch. Temperature only, without CO₂

AB: Control and electrical panel. No differential switch. Temperature only, with CO₂

BB: Control and electrical panel. With differential switch. Temperature only, with CO₂

AC: Control and electrical panel. No differential switch. Temperature and humidity, without CO₂

BC: Control and electrical panel. With differential switch. Temperature and humidity, without CO₂

AD: Control and electrical panel. No differential switch. Temperature and humidity, with CO₂

BD: Control and electrical panel. With differential switch. Temperature and humidity, with CO₂

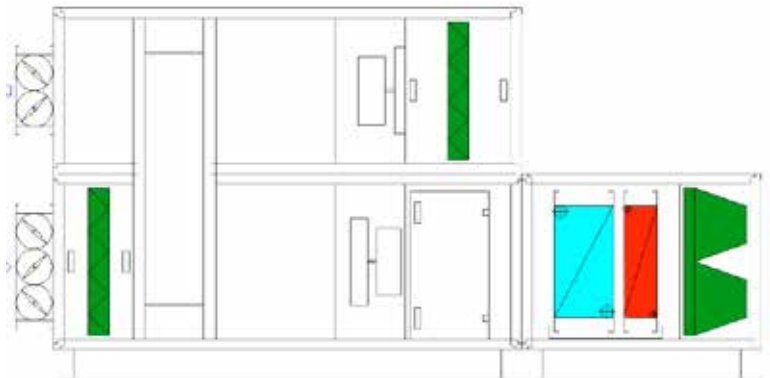
Order Example

T / 02 / S3 / R1 / E1C / 6 / 6 / 7 / 6 / 2 / 0 / Z40 / 0 / HE / 1 / 1 / 0 / 0 / 2 / 0 / RR



Air-Handling TKM50 HE EU Easy Unit, prepared for outdoors usage, with a rotating recovery system without recirculation (100% outdoor air). Sandwich-type panels (50 mm) with inner galvanised-steel plate and outer precoated plate. Galvanised-steel base frame (140 mm high). Size 02 (1970 +1360 mm long x 1340 mm wide x 1400 mm high). It includes the biggest induction supply fan and a smaller size return fan, both EC, with pressure-probe measurement. This unit has an enthalpic, constant speed recovery system, with the smallest possible diameter. This unit has an ePM 10 75% filter, as per ISO 16890 (M6), both for outdoor air and return, and an ePM 1 85% final filter, as per ISO 16890 (F7); all of them are monitored using a probe. The air-handling unit has a 6-row cooling coil and another 2-row heating coil. This unit includes air-regulation dampers for monitoring via actuators. All maintenance-access sections have lighting. The connections and the accesses are located on side 1.

*Control and electrical panel not included.



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