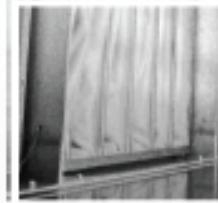


# KITCHEN VENTILATION

## H/C-RU HEAT/COOL RECOVERY UNIT



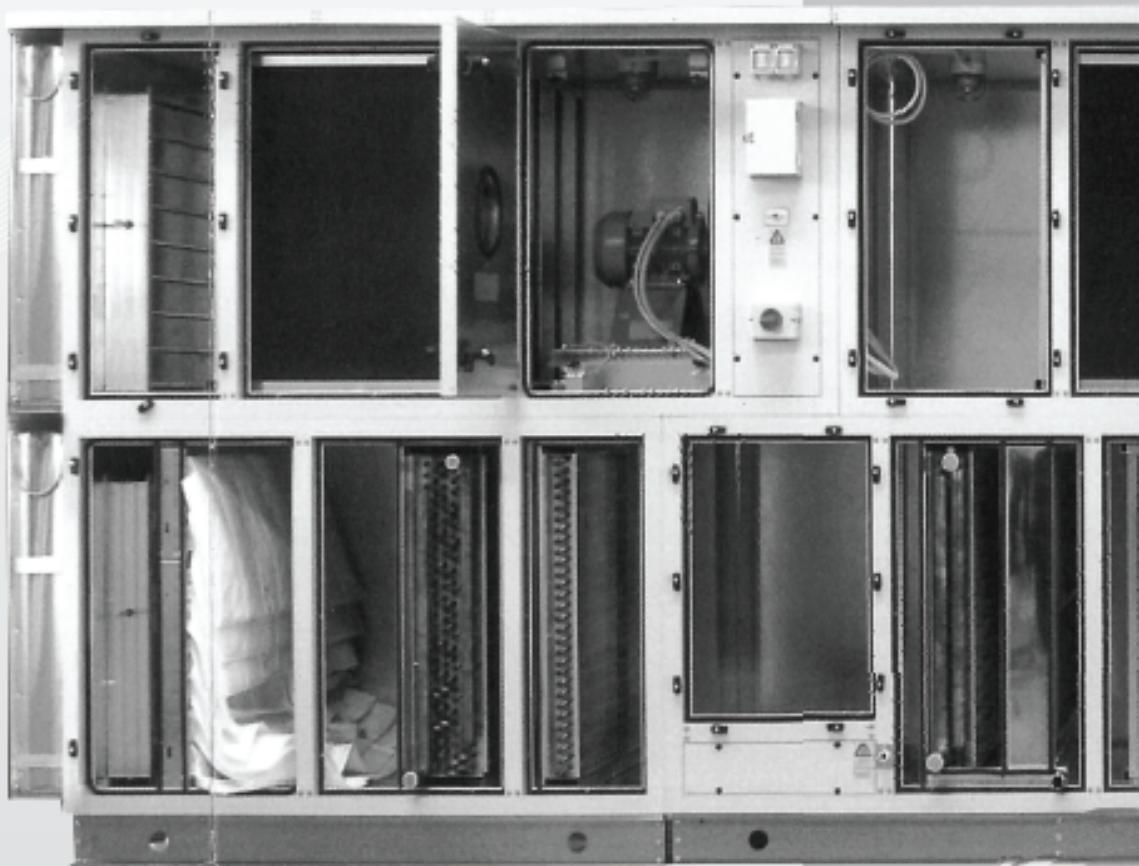
FOR COMFORTABLE AND HEALTHY INTERNAL CLIMATE WITH THE LOWEST POSSIBLE ENERGY CONSUMPTION



FILTER



LOUVRE



HEAT EXCHANGER



HEAT WHEEL

### Vianen Kitchen Ventilation

Edisonweg 15, 3442 AC Woerden, P.O.Box 163, 3440 AD Woerden, Holland

e-mail: sales@vianenkvs.nl, website: [www.vianenkvs.com](http://www.vianenkvs.com)

Tel: +31.348.416300, Fax: +31.348.421595



MOUNTING FRAME

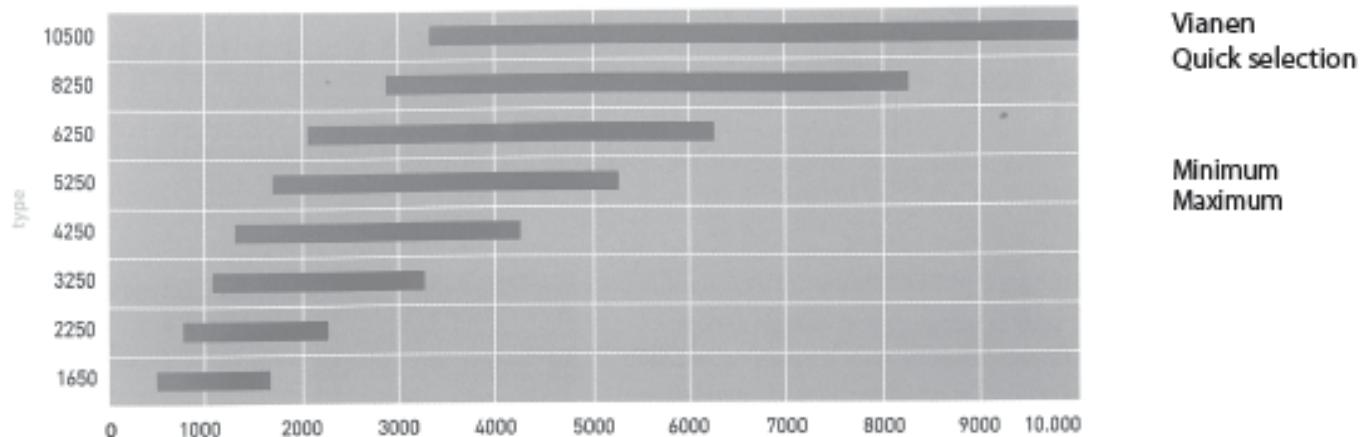
PLATE EXCHANGER



COOLER



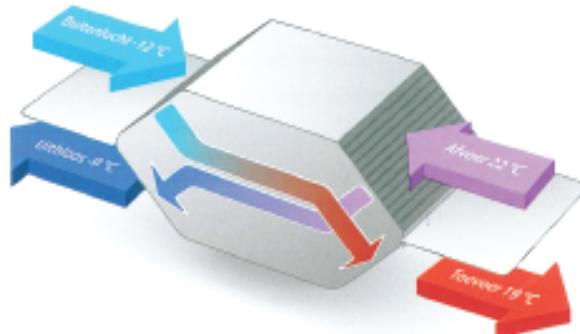
FAN



### High efficiency ( $\eta$ 90%)

By choosing the Vianen range of heat-recovery units a balanced climate can be achieved in a range between 1.650 m<sup>3</sup>/h to 10.500 m<sup>3</sup>/h . A thermal high efficiency of 90%\* will be realised based on the nominal air volume. The high efficiency aluminium plate heat exchanger, using the counter-flow principle, guarantees fully separated air streams. The return air is thus not mixed with the fresh air supply. The heat exchanger is a high-quality corrosion and seawater-resistant component, and is fully recyclable.

Counter-flow heat exchanger guarantees separate air streams

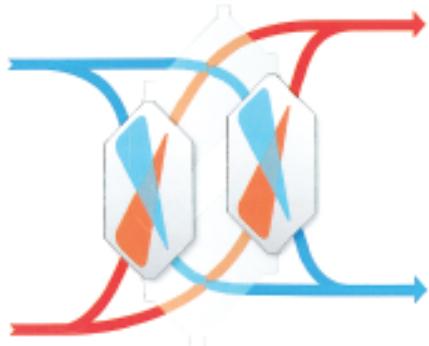


\*ambient air - 10° C/90%, internal air 20°C/50%, air speed approaching heat exchanger <2 m/s

### Bypass

The Vianen unit comes, fitted as standard, with a patented bypass module. The bypass allows optimum use of cool, ambient air, both in the summer months (including night ventilation in summer) and in the event of high internal heat load. The bypass damper is controlled by the Ned Air control package, this allows the unit to maintain the ideal internal climate with the lowest possible energy consumption.

Heat-recovery operation (bypass closed)

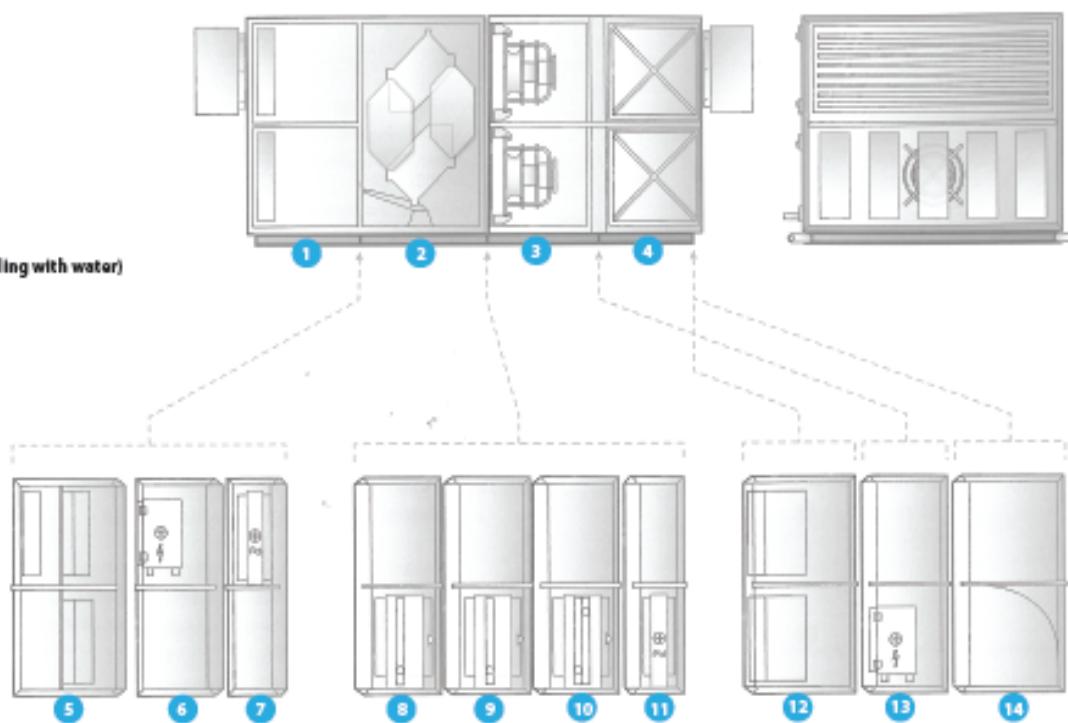


Bypass operation (bypass open)



# TYPES

- 1** Filter F7/G4
- 2** HRU with bypass
- 3** Fan
- 4** Silencer
- 5** Damper + filter
- 6** Electric pre-heater
- 7** LPHW pre-heater coil
- 8** CHW cooling coil
- 9** Change over (heating/cooling with water)
- 10** DX cooling coil
- 11** LPHW main heating coil
- 12** Electric heater
- 13** F9 filter
- 14** Plenum



## Vianen types

	Air Volume m³/h	Air Velocity m/s	Width mm	Length Type A & D- mm	Length Type B & C- mm	Height mm	Base Frame mm	External Fixering A	External pressure Pa	Max electrical load kW	Weight Type A (external) kg	Weight Type B (external) kg	Weight Type C (internal) kg	Weight Type D (internal) kg
1680	500-1650	0.14-0.46	1925	1925	1050	1050	80	230V 16A 1ph+N	200	1,00	467	467	423	423
2250	750-2250	0.21-0.62	1925	1925	1400	1050	80	230V 16A 1ph+N	200	1,40	565	565	508	508
3250	1050-3250	0.29-0.90	2275	2275	1400	1400	80	230V 16A 1ph+N	200	1,50	730	730	663	663
4250	1300-4250	0.36-1.18	2275	2275	1750	1600	80	400V 16A 3ph+N	300	1,50	930	904	822	822
5250	1700-5250	0.47-1.44	3850	3150	1750	1400	80	400V 16A 3ph+N	300	6,00	1069	994	882	934
6250	2050-6250	0.57-1.74	3850	3150	2100	1400	80	400V 16A 3ph+N	300	6,00	1214	1132	1002	1055
8250	2850-8250	1.79-2.29	4200	3500	2100	2100	120	400V 25A 3ph+N	300	6,00	1589	1505	1360	1417
10500	3300-10500	0.92-2.92	4375	3675	2450	2100	120	400V 25A 3ph+N	400	8,10	1886	1768	1594	1678

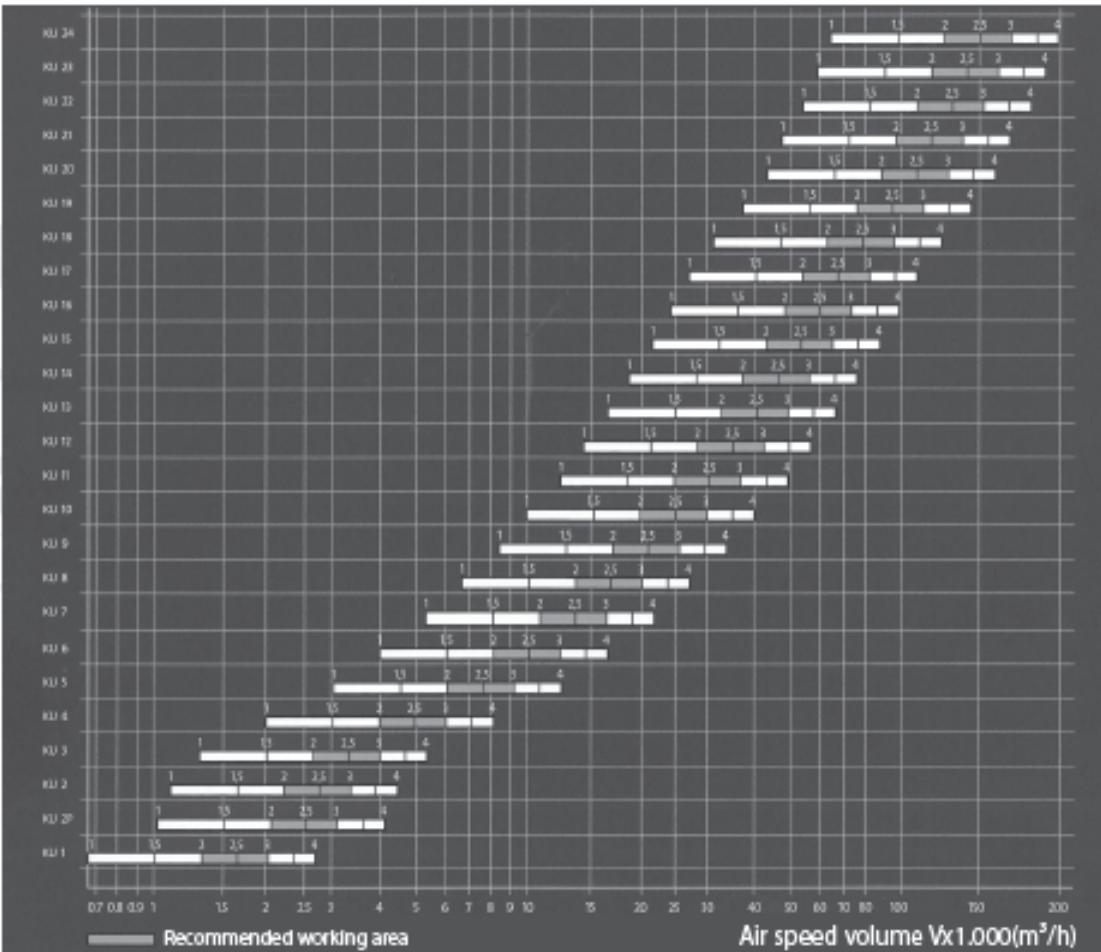
# H/C-RU

## HEAT/COOL RECOVERY UNIT

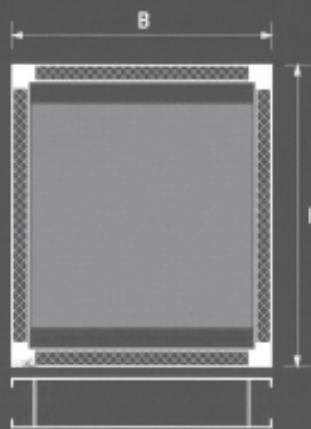
A wide range of units for the best solution – every unit is custom designed.

### TYPE

Air speed nett cross section of the unit v(m/s)



Unit dimensions (mm)



Type	B	H	Type	B	H	Type	B	H
KU 1	705	450	KU 9	1630	1715	KU 18	3765	2630
KU 2P	1010	450	KU 10	1935	1715	KU 19	4375	2630
KU 2	705	650	KU 11	1935	2020	KU 20	4985	2630
KU 3	705	755	KU 12	2240	2020	KU 21	5595	2630
KU 4	1010	755	KU 13	2240	2325	KU 22	6205	2630
KU 5	1010	1060	KU 14	2545	2325	KU 23	6815	2630
KU 6	1315	1060	KU 15	2545	2630	KU 24	7425	2630
KU 7	1315	1365	KU 16	2850	2630			
KU 8	1620	1365	KU 17	3155	2630			