

COMMERCIAL PRODUCTS OVERVIEW & CASE STUDIES



Ventilation & active heat recovery



Commercial



Active
heat recovery



Ventilation



Comfort
heating



Comfort
cooling

Danish design & Danish built

For 50 years Nilan have been world leaders in innovative heat pump and ventilation technology.



Commercial solutions up to 35,000 m³/h

Nilan offers a range of ventilation units suitable for, offices, shopping centres, restaurants, educational institutions, hospitals, concert halls, hotels and similar spaces where cooling is often required. These are done so by integrating our market leading MVHR systems at the heart of the mechanical strategy. MVHR strategies that include:

Counterflow heat exchanger

Nilan offers ventilation units with heat recovery via a counterflow heat exchanger and air volumes of up to 5,300 m³/h.

Heat pump/rotary heat exchanger

The Nilan VPR series are ventilation units with heat recovery via a rotating heat exchanger in combination with a heat pump. The heat pump has a reversible refrigeration cycle and can cool or heat the supply air. Air volumes up to 22,000 m³/h.

Heat pump/heat pipe

The Nilan VPM-series consists of ventilation units with heat pump in combination with a heat pipe. They are available with an air volume of up to 35,000 m³/h. The efficient heat pump can both cool and heat the supply air.



The Combi Series

Counterflow MVHR & Ventilation
 Min 200m³/hr - Max 5,000m³/hr

Dimensions (W x D x H)	1200 x 950 x 630 mm 1817 x 825 x 970 mm 2650 x 1250 x 1500 mm
Airflow	Min : 200m ³ /hr Max 800m ³ /hr Min : 400m ³ /hr Max 1,675m ³ /hr Min : 500m ³ /hr Max 5,000m ³ /hr
Thermal efficiency of heat recovery	Comfort 600 = 79,6% Comfort 5000 = 80,5 %
Heat exchanger type	Polyethylenterephthalat counterflow Aluminium counterflow heat exchanger Aluminium counterflow heat exchanger
Supply voltage	230V 50/60 Hz 230V 50/60 Hz 3 x 400V 50/60 Hz
Duct connections	200 mm Dia 315 mm Dia 800 x 500 mm
Sound power level (LWA)	Comfort 600 = 56 dB(A) Comfort 5000 = 54 dB(A)



Ventilation



Passive heat recovery



HCR 800t

Ventilation, Rotary Wheel MVHR, Heating & Cooling
Suitable for classroom & Commercial retrofits

Dimensions (W x D x H)	1100 x 620 x 1850
Supply Airflow	800m ³ /hr
Total Heat Capacity (incl MVHR) & COP at 800m ³ /h	13.51 kW / 19.90
Total Cooling effect At 800m ³ /h	10.86 kW
Power	1x 230V



Ventilation



Passive heat recovery



Active heat recovery



Comfort heating



Comfort cooling



The VPR Series

Ventilation, Rotary Wheel MVHR, Heating & Cooling
 Min 400m³/hr - Max 6,500m³/hr

Dimensions (W x D x H)	VPR120 : 2100 x 810 x 990 mm VPR240 : 2300 x 910 x 1040 mm VPR360 : 2445 x 1110 x 1240 mm VPR480 : 2445 x 1235 x 1400 mm VPR560 : 2445 x 1235 x 1400 mm
Airflow	Min : 400m ³ /hr / Max : 1,950m ³ /hr Min : 800m ³ /hr / Max : 2,650m ³ /hr Min : 900m ³ /hr / Max : 4,150m ³ /hr Min : 1,200m ³ /hr / Max : 4,800m ³ /hr Min : 1,200m ³ /hr / Max : 6,500m ³ /hr
Total Heat Capacity (incl MVHR) & COP Outdoor temp: -7 °C Indoor temp: +20 °C Delivering > 22 °C	VPR120 : 14.07 kW / 18.44 VPR240 : 26.98 kW / 15.72 VPR360 : 41.09 kW / 17.23 VPR480 : 54.82 kW / 15.89 VPR560 : 65.73 kW / 13.75
Total Cooling Capacity & COP Outdoor temp: +35 °C Indoor temp: +27 °C Delivering 18.9°C to 20.9°C	VPR120 : 9.23 kW / 6.36 VPR240 : 17.32 kW / 5.21 VPR360 : 27.19 kW / 5.91 VPR480 : 34.23 kW / 5.27 VPR560 : 41.56 kW / 4.71



Ventilation



Passive heat recovery



Active heat recovery



Comfort heating



Comfort cooling



The VPM Series

Ventilation, Heat Pipe MVHR, Heating & Cooling
Hospital Cleanroom versions available

	Min Airflow m ³ /hr	Max Airflow m ³ /hr	Width	Depth	Height
VPM 120	400	2150	1975	675	990
VPM 240	800	2850	2155	750	1240
VPM 360	900	4400	2255	939	1400
VPM 480	1200	5800	2255	1150	1400
VPM 560	1400	6500	2255	1150	1400
VPM 600	3500	7000	3910	1370	1480
VPM 700	5000	8900	4290	1370	2000
VPM 800	5000	11000	4290	1370	2000
VPM 1000	5000	11000	4290	1370	2000
VPM 1200	4000	14500	4400	1910	2100
VPM 1500	5000	18000	4400	1910	2100
VPM 2200	5000	24000	4850	1910	2660
VPM3200	10000	36000	5470	2510	2730



Ventilation



Passive heat recovery



Active heat recovery



Comfort heating



Comfort cooling



Sanitary hot water production



Ballymoney Library Casestudy



Location	Ballymoney, Co Antrim N.Ireland
Model	VPR240
Application	Library Deep retrofit

Enniscorthy Tech Park Casestudy



Location	Senan House, Enniscorthy, Co Wexford Ireland
Model	8No VPM360
Application	New Build Open plan Offices. (2 per floor plate)



Killyeagh Library Casestudy



Location	Killyeagh, Co Down N.Ireland
Model	VPR240
Application	Library Deep retrofit

Bedford University Casestudy



Location	Bedford, England
Model	26No VPR240 & VPR120
Application	University Decarbonisation scheme, 1970's tower upgrade.

Corby College Casestudy



Location	Corby, England
Model	27No VPR120 & 3No VPR240
Application	University Decarbonisation scheme

Hotel, Switzerland Casestudy



Location	Switzerland
Model	HCR800T
Application	Ventilation, Heating and cooling of a small hotel

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