

Efficient. Flexible. Reliable.

Hoval indoor climate systems are decentralised systems for heating, cooling and ventilating halls for industrial, commercial and leisure applications. The systems have a modular structure. One system comprises several ventilation units which are spread around the room. These units are equipped with reversible heat pumps and gas-fired appliances for decentralised heat and cold generation, or they heat and cool with a connection to a central energy supply.

Tailored control systems complete the system and ensure the effective combination and optimal use of all resources.

Diverse range of units ensures flexibility

Different types of ventilation units can be combined to create the perfect system for the project in question:

- RoofVent® supply and extract air handling units
- TopVent® supply air units
- TopVent® recirculation units

The number of supply and extract air handling units depends on how much fresh air is required in order to create a comfortable atmosphere for people in the building. Recirculation units cover additional heat or cool demand as required. A broad range of unit types and sizes with heating and cooling coils in various output levels means that the overall output of the system can be scaled to whatever level is required.

Specially designed unit versions are also available for halls with particularly humid or oily extract air. Furthermore, there is a range of units available which have been expressly developed for very specific purposes. ProcessVent units, for example, are coupled with extract air purification systems in industrial halls and recover heat from process air.

Draught-free air distribution

A key feature of Hoval indoor climate units is the patented vortex air distributor, known as the Air-Injector. It is controlled automatically and changes the blowing angle of the air continuously between vertical and horizontal. The highly efficient air supply system has many advantages:

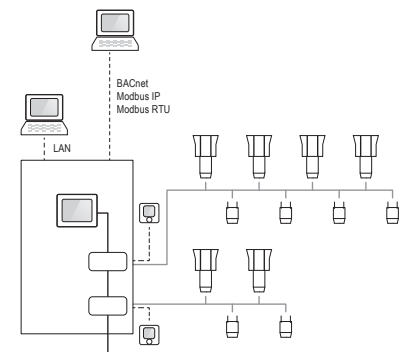
- It provides a high level of comfort during heating and cooling. No draughts develop in the hall.
- The efficient and even air distribution ensures that the indoor climate units cover a large area.
- The Air-Injector keeps the temperature stratification in the room low, thus minimising heat loss through the roof.

Control with specialist expertise

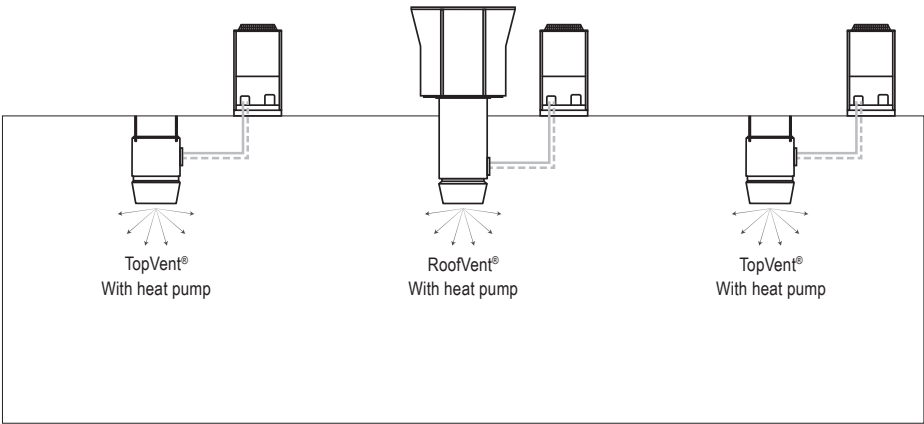
The TopTronic® C control system, which was specifically developed for Hoval indoor climate systems, regulates the separate units individually and controls them based on zones. This enables optimal adjustment to the local requirements of the different usage areas in the building. The patented control algorithm optimises energy use and ensures maximum comfort and hygiene levels. Clear interfaces make it easy to connect the system to the building management system. Simpler control systems are also available for units that are only used for supply air or air recirculation.

Competent and reliable

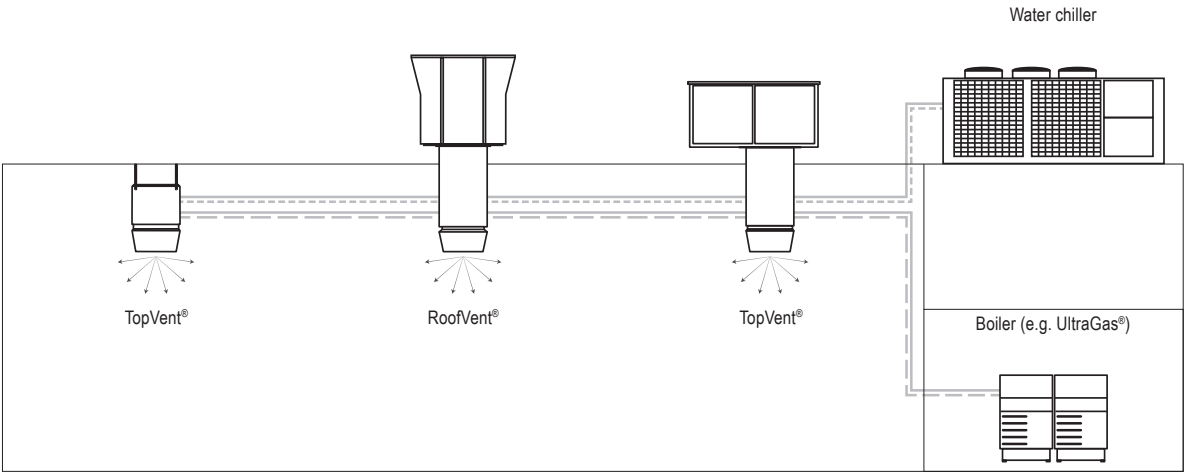
Hoval will support you and provide expert knowledge throughout all project phases. You can rely on comprehensive technical advice when it comes to planning Hoval indoor climate systems and on the skills of the Hoval technicians during the installation, commissioning and maintenance of the system.



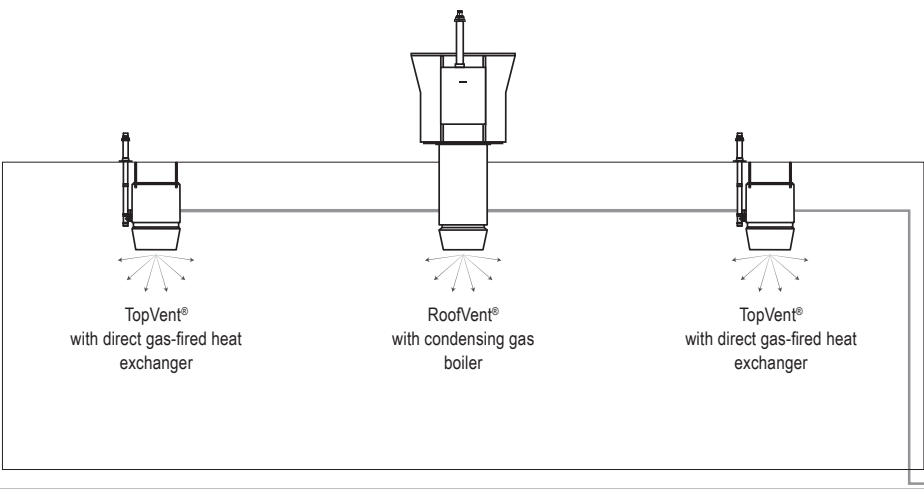
System with decentralised heat and cold generation with heat pump

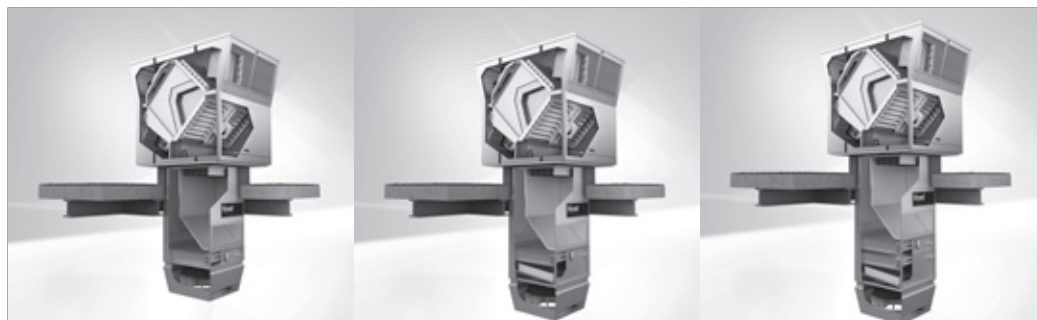


System with central heat and cold generation



System with decentralised gas-fired heat generation





Supply and extract air handling units with efficient air distribution

RoofVent® RH

Heating with central heat generation

Ventilation

- Fresh air supply
- Extract air removal
- Filters fresh air, recirculated air and extract air
- Air distribution with Air-Injector
- Recirculation operation

Heating

- With connection to boiler system

Energy recovery

RoofVent® RC

Heating and cooling with central heat and cold generation in the 2-pipe system

Ventilation

- Fresh air supply
- Extract air removal
- Filters fresh air, recirculated air and extract air
- Air distribution with Air-Injector
- Recirculation operation

Heating

- With connection to boiler system

Cooling

- With connection to water chiller

Energy recovery

RoofVent® RHC

Heating and cooling with central heat and cold generation in the 4-pipe system

Ventilation

- Fresh air supply
- Extract air removal
- Filters fresh air, recirculated air and extract air
- Air distribution with Air-Injector
- Recirculation operation

Heating

- With connection to boiler system

Cooling

- With connection to water chiller

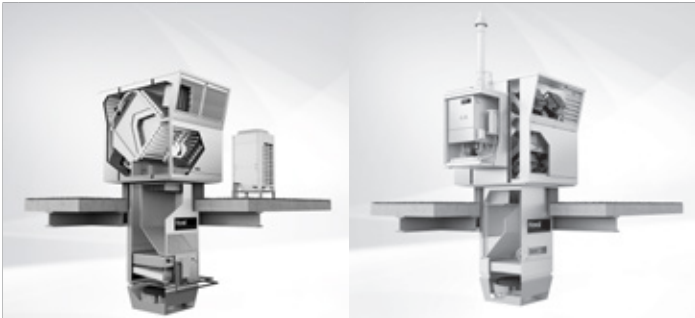
Energy recovery

Technical data	
Air flow rate	m³/h
Heat output	kW
Cooling capacity	kW
Operating distance	m x m
Weight	kg

	RH-6	RH-9
Air flow rate	5500	8000
Heat output	up to 78	up to 139
Cooling capacity	–	–
Operating distance	22 x 22	28 x 28
Weight	849	1123

	RC-6	RC-9
Air flow rate	5500	8000
Heat output	up to 78	up to 139
Cooling capacity	up to 52	up to 98
Operating distance	22 x 22	28 x 28
Weight	882	1171

	RHC-6	RHC-9
Air flow rate	5500	8000
Heat output	up to 78	up to 139
Cooling capacity	up to 52	up to 98
Operating distance	22 x 22	28 x 28
Weight	919	1244



Supply and extract air handling units
with efficient air distribution

RoofVent® RP

Heating and cooling with
decentralised heat pump

Ventilation

- Fresh air supply
- Extract air removal
- Filters fresh air, recirculated air and extract air
- Air distribution with Air-Injector
- Recirculation operation

Heating

- With heat pump

Cooling

- With heat pump

Energy recovery

RoofVent® RG

Heating with gas-fired heat
generation

Ventilation

- Fresh air supply
- Extract air removal
- Filters fresh air, recirculated air and extract air
- Air distribution with Air-Injector
- Recirculation operation

Heating

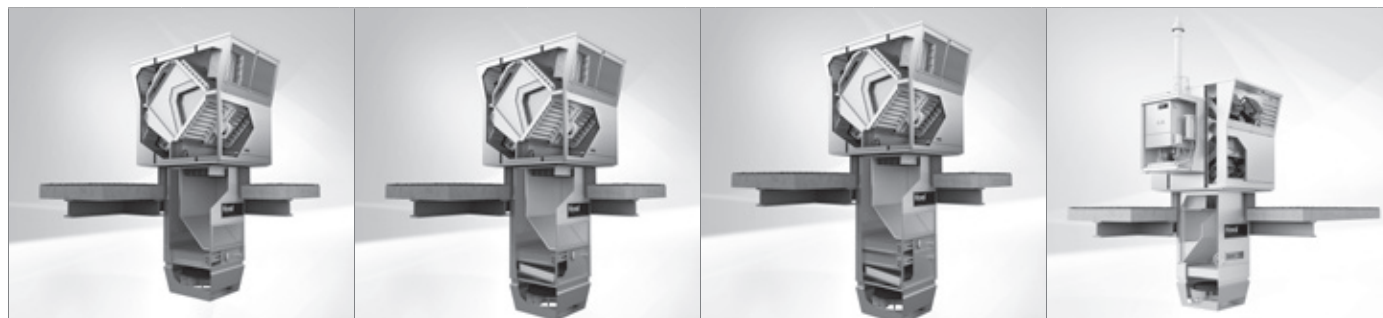
- With condensing gas boiler

Energy recovery

Technical data	
Air flow rate	m³/h
Heat output	kW
Cooling capacity	kW
Operating distance	m x m
Weight	kg

RP-6	RP-9
5500	8000
up to 40	up to 67
up to 40	up to 67
22 x 22	28 x 28
839	1201

RG-9
8000
up to 84
–
28 x 28
1250



Supply and extract air handling units with efficient air distribution (Non-EU countries)

<div>RoofVent® KH</div> <div>Heating with central heat generation</div> <div>Ventilation<ul style="list-style-type: none">Fresh air supplyExtract air removalFilters fresh air, recirculated air and extract airAir distribution with Air-InjectorRecirculation operation</div> <div>Heating<ul style="list-style-type: none">With connection to boiler system</div> <div>Energy recovery</div> <table><tr><th>KH-6</th><th>KH-9</th></tr><tr><td>7500</td><td>11000</td></tr><tr><td>up to 110</td><td>up to 171</td></tr><tr><td>–</td><td>–</td></tr><tr><td>27 x 27</td><td>36 x 36</td></tr><tr><td>716</td><td>905</td></tr></table>	KH-6	KH-9	7500	11000	up to 110	up to 171	–	–	27 x 27	36 x 36	716	905	<div>RoofVent® KC</div> <div>Heating and cooling with central heat and cold generation in the 2-pipe system</div> <div>Ventilation<ul style="list-style-type: none">Fresh air supplyExtract air removalFilters fresh air, recirculated air and extract airAir distribution with Air-InjectorRecirculation operation</div> <div>Heating<ul style="list-style-type: none">With connection to boiler system</div> <div>Cooling<ul style="list-style-type: none">With connection to water chiller</div> <div>Energy recovery</div> <table><tr><th>KC-6</th><th>KC-9</th></tr><tr><td>7000</td><td>10500</td></tr><tr><td>up to 106</td><td>up to 167</td></tr><tr><td>up to 81</td><td>up to 112</td></tr><tr><td>25 x 25</td><td>35 x 35</td></tr><tr><td>749</td><td>972</td></tr></table>	KC-6	KC-9	7000	10500	up to 106	up to 167	up to 81	up to 112	25 x 25	35 x 35	749	972	<div>RoofVent® KHC</div> <div>Heating and cooling with central heat and cold generation in the 4-pipe system</div> <div>Ventilation<ul style="list-style-type: none">Fresh air supplyExtract air removalFilters fresh air, recirculated air and extract airAir distribution with Air-InjectorRecirculation operation</div> <div>Heating<ul style="list-style-type: none">With connection to boiler system</div> <div>Cooling<ul style="list-style-type: none">With connection to water chiller</div> <div>Energy recovery</div> <table><tr><th>KHC-6</th><th>KHC-9</th></tr><tr><td>7000</td><td>10500</td></tr><tr><td>up to 106</td><td>up to 167</td></tr><tr><td>up to 81</td><td>up to 112</td></tr><tr><td>25 x 25</td><td>35 x 35</td></tr><tr><td>786</td><td>1026</td></tr></table>	KHC-6	KHC-9	7000	10500	up to 106	up to 167	up to 81	up to 112	25 x 25	35 x 35	786	1026	<div>RoofVent® KG</div> <div>Heating with gas-fired heat generation</div> <div>Ventilation<ul style="list-style-type: none">Fresh air supplyExtract air removalFilters fresh air, recirculated air and extract airAir distribution with Air-InjectorRecirculation operation</div> <div>Heating<ul style="list-style-type: none">With condensing gas boiler</div> <div>Energy recovery</div> <table><tr><th>KG-9</th></tr><tr><td>11000</td></tr><tr><td>up to 113</td></tr><tr><td>–</td></tr><tr><td>36 x 36</td></tr><tr><td>1147</td></tr></table>	KG-9	11000	up to 113	–	36 x 36	1147
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Recirculation units with efficient air distribution

TopVent® TH

Heating with central heat generation

Ventilation

- Recirculation operation
- Air distribution with Air-Injector
- Outlet nozzle (option)
- Air filtration (option)

Heating

- With connection to boiler system

TopVent® TC

Heating and cooling with central heat and cold generation in the 2-pipe system

Ventilation

- Recirculation operation
- Air distribution with Air-Injector
- Air filtration (option)

Heating

- With connection to boiler system

Cooling

- With connection to water chiller

TopVent® THC

Heating and cooling with central heat and cold generation in the 4-pipe system

Ventilation

- Recirculation operation
- Air distribution with Air-Injector
- Air filtration (option)

Heating

- With connection to boiler system

Cooling

- With connection to water chiller

Technical data		TH-6	TH-9	TC-6	TC-9	THC-6	THC-9
Air flow rate	m³/h	6000	9000	6000	9000	6000	9000
Heat output	kW	up to 76	up to 118	up to 76	up to 141	up to 76	up to 118
Cooling capacity	kW	–	–	up to 44	up to 87	up to 44	up to 87
Operating distance	m x m	23 x 23	31 x 31	23 x 23	31 x 31	23 x 23	31 x 31
Weight	kg	111	166	216	276	255	340



Recirculation units with efficient air distribution

TopVent® TP

Heating and cooling with decentralised heat pump

Ventilation

- Recirculation operation
- Air distribution with Air-Injector
- Air filtration (option)

Heating

- With heat pump

Cooling

- With heat pump

TP-6	TP-9
6000	9000
up to 40	up to 67
up to 40	up to 67
23 x 23	31 x 31
314	405

TopVent® TV

Heating with central heat generation

Ventilation

- Recirculation operation
- Air distribution via air outlet louvre

Heating

- With connection to boiler system

TV-2	TV-4	TV-5
2100	4850	5700
up to 13	up to 30	up to 45
–	–	–
7 x 7	10 x 10	12 x 12
16	23	24

TopVent® TW

Air curtain with central heat generation

Ventilation

- Recirculation operation
- Air distribution via outlet nozzle

Heating

- With connection to boiler system

TW-2	TW-3	TW-5
1850	3100	4400
up to 11	up to 20	up to 29
–	–	–
Door height up to 3.7 m		
23	31	39



Recirculation units with efficient air distribution, configured as roof unit

TopVent® CH

Heating with central heat generation

Ventilation

- Recirculation operation
- Air distribution with Air-Injector
- Outlet nozzle (option)
- Air distribution box (option, duct connection)
- Air filtration

Heating

- With connection to boiler system

TopVent® CC

Heating and cooling with central heat and cold generation in the 2-pipe system

Ventilation

- Recirculation operation
- Air distribution with Air-Injector
- Air distribution box (option, duct connection)
- Air filtration

Heating

- With connection to boiler system

Cooling

- With connection to water chiller

TopVent® CHC

Heating and cooling with central heat and cold generation in the 4-pipe system

Ventilation

- Recirculation operation
- Air distribution with Air-Injector
- Air distribution box (option, duct connection)
- Air filtration

Heating

- With connection to boiler system

Cooling

- With connection to water chiller

Technical data		CH-6	CH-9	CC-6	CC-9	CHC-6	CHC-9
Air flow rate	m³/h	6000	9000	6000	9000	6000	9000
Heat output	kW	bis 76	bis 118	bis 76	bis 141	bis 76	bis 118
Cooling capacity	kW	—	—	bis 44	bis 87	bis 44	bis 87
Operating distance	m x m	23 x 23	31 x 31	23 x 23	31 x 31	23 x 23	31 x 31
Weight	kg	616	791	647	843	684	898



Supply air units with efficient air distribution

TopVent® MH

Heating with central heat generation

Ventilation

- Fresh air supply (duct connection)
- Mixed air operation
- Recirculation operation
- Air distribution with Air-Injector
- Air filtration

Heating

- With connection to boiler system

TopVent® MC

Heating and cooling with central heat and cold generation in the 2-pipe system

Ventilation

- Fresh air supply (duct connection)
- Mixed air operation
- Recirculation operation
- Air distribution with Air-Injector
- Air filtration

Heating

- With connection to boiler system

Cooling

- With connection to water chiller

TopVent® MHC

Heating and cooling with central heat and cold generation in the 4-pipe system

Ventilation

- Fresh air supply (duct connection)
- Mixed air operation
- Recirculation operation
- Air distribution with Air-Injector
- Air filtration

Heating

- With connection to boiler system

Cooling

- With connection to water chiller

Technical data		MH-6	MH-9	MC-6	MC-9	MHC-6	MHC-9
Air flow rate	m³/h	6000	9000	6000	9000	6000	9000
Heat output	kW	up to 78	up to 121	up to 78	up to 145	up to 78	up to 121
Cooling capacity	kW	–	–	up to 34	up to 68	up to 34	up to 68
Operating distance	m x m	23 x 23	31 x 31	23 x 23	31 x 31	23 x 23	31 x 31
Weight	kg	172	237	275	343	314	408



Supply air units with efficient air distribution, configured as roof unit

TopVent® SH

Heating with central heat generation

Ventilation

- Fresh air supply
- Mixed air operation
- Recirculation operation
- Air distribution with Air-Injector
- Air distribution box (option, duct connection)
- Air filtration

Heating

- With connection to boiler system

TopVent® SC

Heating and cooling with central heat and cold generation in the 2-pipe system

Ventilation

- Fresh air supply
- Mixed air operation
- Recirculation operation
- Air distribution with Air-Injector
- Air distribution box (option, duct connection)
- Air filtration

Heating

- With connection to boiler system

Cooling

- With connection to water chiller

TopVent® SHC

Heating and cooling with central heat and cold generation in the 4-pipe system

Ventilation

- Fresh air supply
- Mixed air operation
- Recirculation operation
- Air distribution with Air-Injector
- Air distribution box (option, duct connection)
- Air filtration

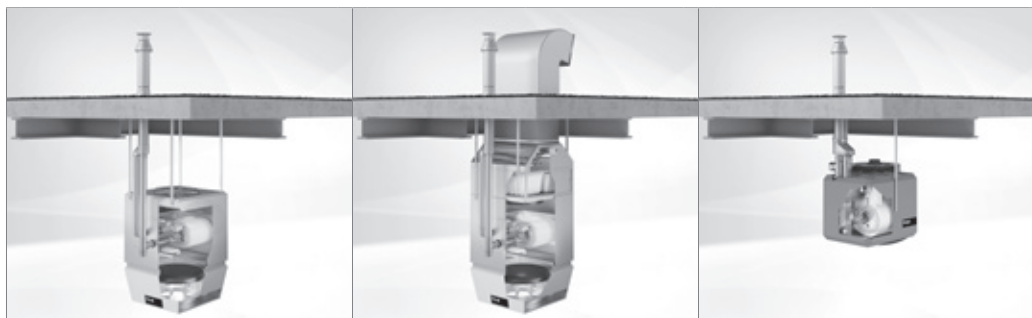
Heating

- With connection to boiler system

Cooling

- With connection to water chiller

Technical data		SH-6	SH-9	SC-6	SC-9	SHC-6	SHC-9
Air flow rate	m³/h	6000	9000	6000	9000	6000	9000
Heat output	kW	bis 78	bis 121	bis 78	bis 145	bis 78	bis 121
Cooling capacity	kW	–	–	bis 34	bis 68	bis 34	bis 68
Operating distance	m x m	23 x 23	31 x 31	23 x 23	31 x 31	23 x 23	31 x 31
Weight	kg	661	846	692	898	729	953



Gas-fired recirculation and supply air units with efficient air distribution

TopVent® TG

Recirculation unit with efficient air distribution

Ventilation

- Recirculation operation
- Air distribution with Air-Injector
- Air filtration (option)
- Outlet nozzle (option)

Heating

- With gas-fired heat exchanger

TG-6	TG-9
7000	11000
29	61
–	–
26 x 26	36 x 36
125	170

TopVent® MG

Supply air unit with efficient air distribution

Ventilation

- Fresh air supply (duct connection)
- Mixed air operation
- Recirculation operation
- Air distribution with Air-Injector
- Air filtration

Heating

- With gas-fired heat exchanger

MG-6	MG-9
7000	11000
29	61
–	–
26 x 26	36 x 36
175	230

TopVent® GV

Recirculation unit

Ventilation

- Recirculation operation
- Air distribution via air outlet louvre

Heating

- With gas-fired heat exchanger

GV-3	GV-5
4200	8500
29	50
–	–
12 x 12	16 x 16
40	80



Compact units with energy recovery from process air

ProcessVent PV

Compact unit for ventilating with energy recovery from process air

Ventilation

- Fresh air supply
- Extract air removal (with air conveyance via the extract air purification plant)
- Recirculation operation
- Air filtration

Energy recovery from process air

ProcessVent PVH

Compact unit for ventilating and heating with energy recovery from process air

Ventilation

- Fresh air supply
- Extract air removal (with air conveyance via the extract air purification plant)
- Recirculation operation
- Air filtration

Heating

- With connection to boiler system

Energy recovery from process air

ProcessVent PVC

Compact unit for ventilating, heating and cooling with energy recovery from process air

Ventilation

- Fresh air supply
- Extract air removal (with air conveyance via the extract air purification plant)
- Recirculation operation
- Air filtration

Heating

- With connection to boiler system

Cooling

- With connection to water chiller

Energy recovery from process air

Technical data	
Air flow rate	m³/h
Heat output	kW
Cooling capacity	kW
Operating distance	m x m
Weight	kg

PV-10
10000
–
–
–
1657

PVH-10
10000
up to 234
–
–
1699

PVC-10
10000
up to 256
up to 118
–
1754