

NEW

VORT PROMETEO PLUS HR400



VENTILATION
AIR CONDITIONING
AIR CLEANING
HEATING



VORT PROMETEO PLUS RANGE

HEAT RECOVERY UNITS



NEW



Product specifications:

- 2 models:
VORT PROMETEO PLUS HR 400
VORT PROMETEO PLUS HR 400 M.
- External Casing in polypropylene (PPE).
- Heat Exchanger – Crossed Counter-Flow type, made of PS (Polystyrene).
- Extremely high heat recovery rate (up to 92%).
- Electronically controlled EC brushless motors independently adjustable.
- Max airflow 380 m³/h.
- 3 available speeds.
- Automatic frost protection.
- By-pass 100%.
- Horizontal and Vertical installation.
- Provided with 2 F5 filters (F7 optional).
- 0.5 m long silencer with nominal diameter of 150 mm supplied.
- 2 mounting brackets for vertical installation and 4 feet for horizontal installation supplied.
- Protection rate: IPX2.
- Insulation class: Cl.II. □

VORT PROMETEO PLUS HR 400:

- RF remote control supplied.
- 2 operating modes: automatic and manual.
- Automatic By-pass.
- Option of setting the temperature, humidity and CO₂ thresholds.
- Timer.

VORT PROMETEO PLUS HR 400 M:

- 3 available speeds chosen through external device (speed selector supplied).
- Manual By-pass.
- Can be used in conjunction with Vortice ambient sensors.

CE Marking

Comply with the following European Directives:

- 2006/95/EC Low Voltage Directive (LVD)
- 2004/108/EC Electromagnetic Compatibility Directive (EMC)
- 2006/42/EC

According to the following state-of-the-art Standards:

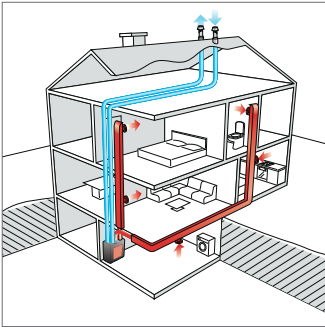
Safety: EN 60335-1, EN 60335-2-80, EN 60335-2-31, EN 62233, EN 60529

EMC: EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

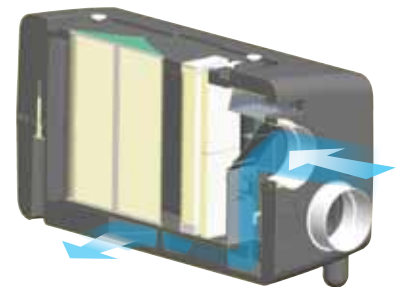
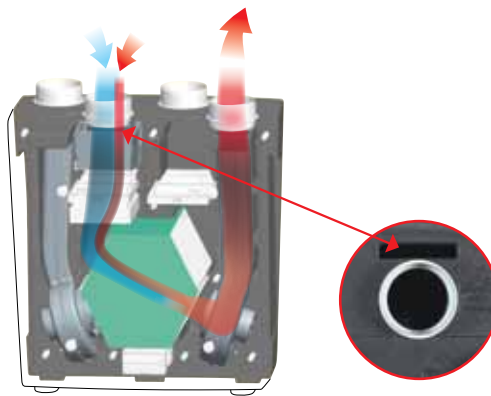
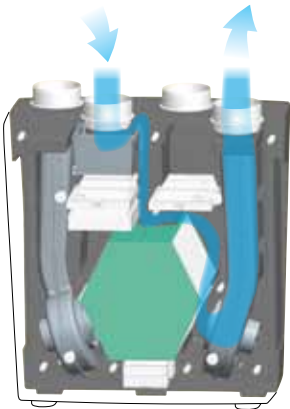
PERFORMANCE: EN 308, EN 13141-7

KEY FEATURES

- Offers continuous ventilation of the home.
- Energy saving thanks to brushless motors.
- Can be integrated into a residential home automation network (ModBus).
- Software can be easily updated through USB connection.
- The PCB is easily accessed by removing the bottom panel.
- Recommended application in residential buildings (such as small detached homes) up to 200 m² and commercial buildings.
- Horizontal or vertical installation facilitated by the minimal weight of the appliance (just 25 kg).



FUNCTIONS AND SUPPLIES VORT PROMETEO PLUS RANGE



By-pass

In ISOTHERMAL conditions (similar indoor and outdoor air temperatures) or where the outdoor temperature is close to desired indoor temperature, the By-pass valve can be activated automatically or manually, allowing fresh air to By-pass (the heat exchanger) for natural ventilation (FREE-COOLING).

Frost protection (Defrosting)

In situations where the outdoor air temperature and RH % cause ice forming on heat exchanger, the frost protection valve automatically opens to mix up fresh outside air with installation room milder air. Simultaneously changes motor speed via the electronic control makes the defrosting process quicker and more efficient. In particularly harsh climates Vortice recommends the installation of 500 W, 1200 W or 1800 W in-duct pre-heaters, available as an optional accessories, each are automatically activated by the on-board electronics.

Filter

VORT PROMETEO PLUS RANGE is supplied with 2 F5 filters, for cleaning fresh and stale air flows. A further optional F7 filter is available for additional filtering of the incoming air. An F5 filter box accessory is also available, for installation outside the machine. Filter efficiency is monitored by the on-board electronics, providing visual and acoustic warnings via the RF remote control.

REGULATION AND CONTROL VORT PROMETEO PLUS MODEL



Each Vort Prometeo Plus feature is controlled by the radio frequency (RF) remote control.

The RF remote control with LCD display featuring new integrated graphics can be used for the following purposes:

- Switching on/off.
- Selecting the appliance operating mode (Manual/Automatic).
- Easy initial setting of minimum and maximum speed (no needs to directly operate the machine).
- Selecting one of the 3 speed settings.
- Selecting the By-pass function.
- Setting the Timer function (the product, working in Manual mode, will work at the maximum speed for: 10', 20', 30' or indefinitely, automatically slowing down to min speed).
- Configuring the automatic operating parameters:
 - **desired indoor temperature** (for bypass management only) can be set by the user between +15 °C and +30 °C (each step 1 °C);
 - **relative humidity** can be set by the user between 40% and 90% (each step 5%);
 - **Max. CO₂ air concentration** in the room can be set by the user between 500 ppm and 3.000 ppm (at step of 50 ppm); CO₂ level can be disabled.
- Viewing machine malfunction information.

An additional radio frequency (RF) antenna, part code (22479) including a connection cable, is available as an option, and allows control Vort Prometeo Plus even if the position chosen for its installation is screened from radio waves.

FILTER SPECIFICATIONS

- The air we breathe contains a huge number of potentially harmful particles, over 90% of them are smaller than 1 μm , for example:
 - **Fine particles** emitted by motor vehicles and heating systems.
 - **Viruses.**
 - **Bacteria.**
 it is very important to use air exchange systems with high-efficiency filters, which capture most of these toxic particles.
- Mechanically controlled ventilation systems such as VORT PROMETEO PLUS heat recovery units filter air as it enters served ambients, protecting the health and wellbeing of people occupying the rooms served by the appliance.

DON'T FORGET:

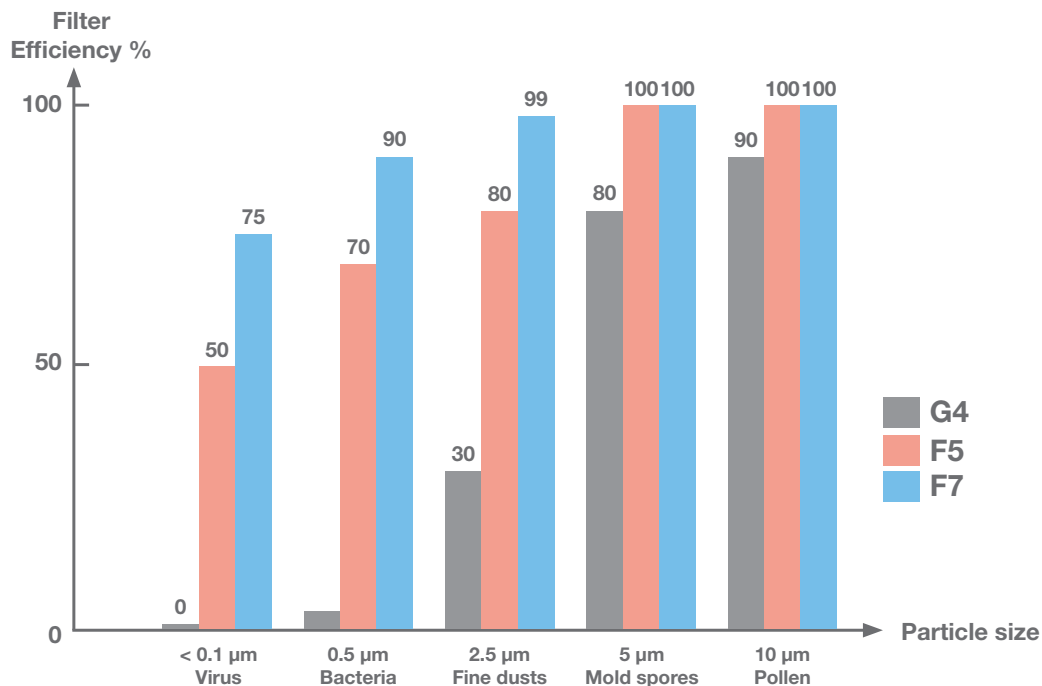


Over time, filters become clogged, leading to a greater pressure loss in the air circuit; the filters therefore require regular maintenance and should be replaced when they are no longer effective.

- Filters can be split into 2 main categories, based on their filtering efficiency:
 - **Type G: coarse filter**
 - **Type F: fine filter**

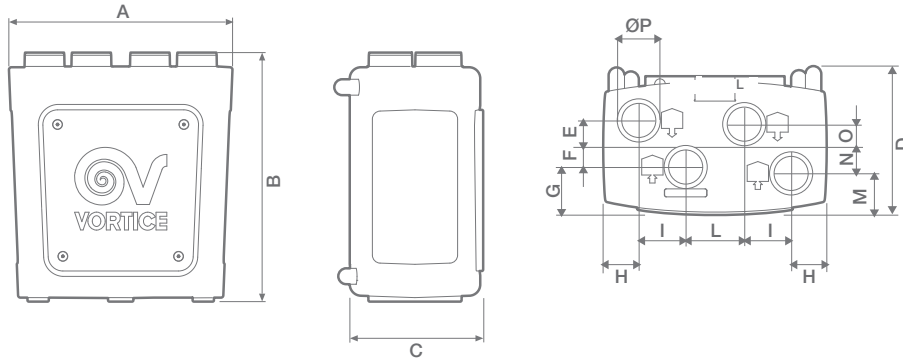
These categories are defined by European standard **EN779**.

Within the two categories, a progressive number indicates the efficiency level of the filter: the higher the number, the more efficient the filter is at capturing particles, as you can see from the chart below.



F filters are the most efficient at capturing small particles.

DIMENSIONS



Models	Code	A	B	C	D	E	F	G	H	I	L	M	N	O	ØP
VORT PROMETEO PLUS HR 400	11582	840	935	502	560	85	100	156.7	133.6	176	220	180.7	76	99	150
VORT PROMETEO PLUS HR 400 M	11585														

Dimensions (mm)

TECHNICAL DATA

Models	Code	V ~ 50 Hz	W	A	Max Airflow		Max Pressure		Kg	Max °C
					m³/h	l/s	mmH ₂ O	Pa		
VORT PROMETEO PLUS HR 400	11582	230	160	1.3	380	106	68.8	675	25	50
VORT PROMETEO PLUS HR 400 M	11585									

SOUND LEVELS* VORT PROMETEO PLUS RANGE

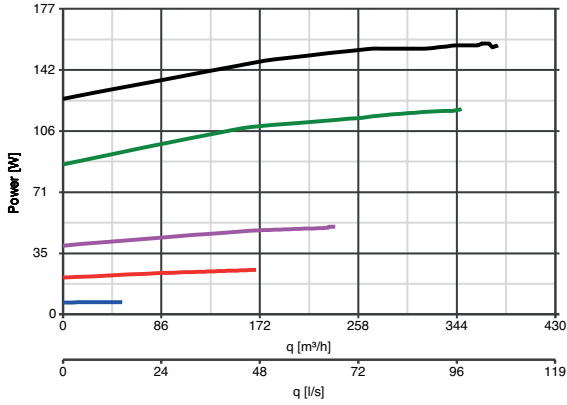
RPM		Lw dB (A)							Lw dB (A)	Lp dB (A) 3m
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz		
700	Inlet	8.4	9.3	14	22.6	5	9.2	10.1	28	7.5
	Outlet	5.7	15	18.1	16.4	13.9	12.2	7.5	27.5	7
	Radiated	14.3	39.2	18.3	20.6	2.9	7.1	na**	44	23.5
1600	Inlet	18.5	24.1	29.4	37.5	24.8	15.6	13.3	43.2	22.7
	Outlet	16	25.6	27.9	28.4	18.8	6.8	3.3	37.6	17.1
	Radiated	21.7	31.9	38.3	34	23.8	11.8	7.5	48.4	27.9
2100	Inlet	16.9	32.3	36.6	48.3	35.8	24.7	10.2	56.7	36.2
	Outlet	14.9	34.7	32.8	38.4	29.2	15.7	nd	46.4	25.9
	Radiated	24.6	41.1	41.6	47.1	34.8	20.8	5.6	58	37.5
2650	Inlet	20.3	40.9	46	64.7	41.8	33.7	18.5	65.5	45
	Outlet	19.1	42.5	38.4	60	36	25.6	13.8	60.7	40.2
	Radiated	31.3	43	48.1	59.2	41.4	29.1	13.6	61.3	40.8
3000	Inlet	23.5	41.3	47.5	52	44.1	37.1	22.8	59.4	38.9
	Outlet	19.7	42.7	40.6	43.2	38	27.1	12.2	53.6	33.1
	Radiated	28.9	45.7	47.9	47.4	43.9	33.3	16.2	59.5	39
3350	Inlet	25.3	44.4	49.7	54.8	48.4	42.3	28.8	62.7	42.2
	Outlet	23.6	43.4	43.2	45.7	41.5	31.6	13.5	55.5	35
	Radiated	31.8	46.7	51.5	55.2	47.5	37.4	22	62.4	41.9

* Tests carried out using sound intensity measurement in a semi-anechoic chamber.

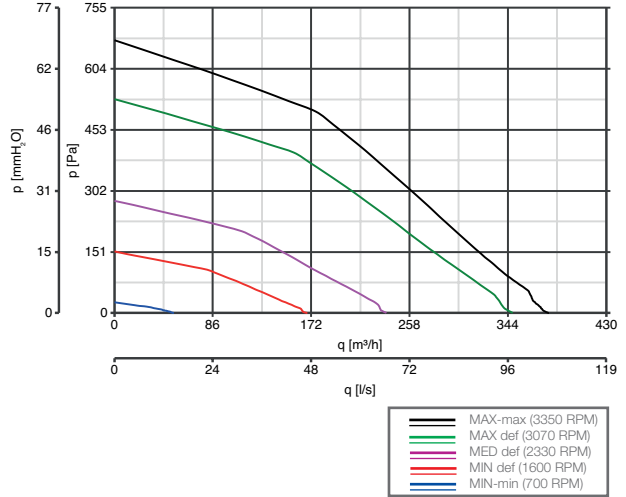
** Data not available.

PERFORMANCE CURVES

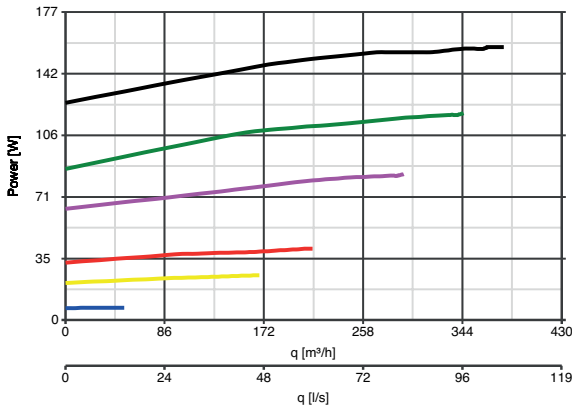
VORT PROMETEO PLUS HR 400 M
POWER CONSUMPTION CURVES



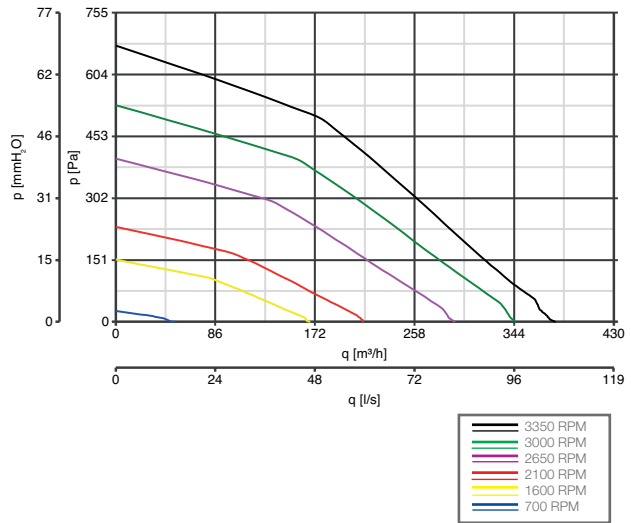
VORT PROMETEO PLUS HR 400 M
AIRFLOW/PRESSURE CURVES



VORT PROMETEO PLUS HR 400
POWER CONSUMPTION CURVES



VORT PROMETEO PLUS HR 400
AIRFLOW/PRESSURE CURVES



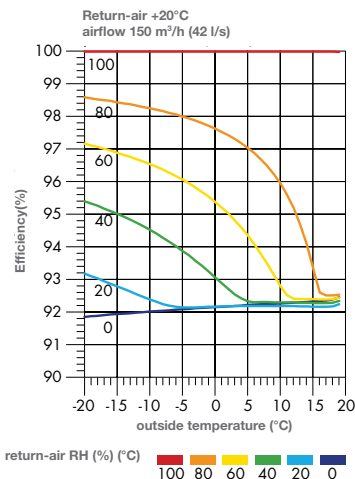
EFFICIENCY CURVES

Test according to EN 308

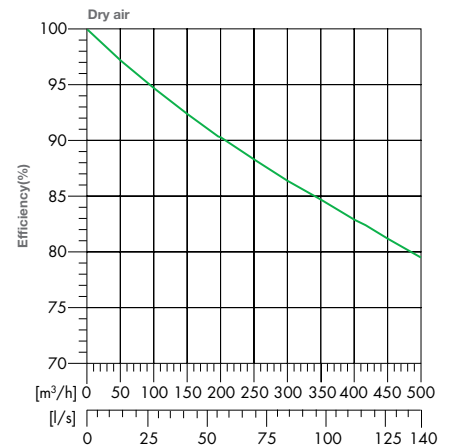
TOTAL EXHAUST FLOW RATE (m ³ /h)	HEAT RECOVERY EFFICIENCY (%)
54	92
76	91
98	90
119	90
140	89
162	88
184	88
205	87

Test conditions: -5°C/70%; +25°C/28%.
Data referred to test performed at BRE according to BRITISH SAP-Q system 4 standard.






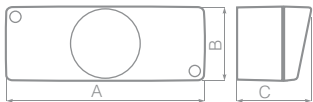
Influence on efficiency due to condensation heat



Efficiency as a function of the airflow






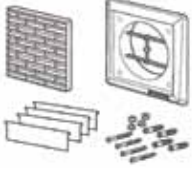


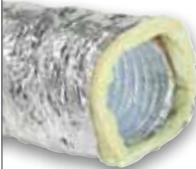

ACCESSORIES

	Description	Code	Models			
	C TEMP-TEMPERATURE: Measures ambient room temperature, and starts the fan when the temperature exceeds the preset value. Once the temperature drops below the preset value, you can adjust the over-run timer from 3 to 20 minutes.	12992	11585			
	C SMOKE: Measures the air quality, detecting the presence of cigarette smoke, odours and other pollutants, and starts the fan when the concentration of pollutants exceeds the preset value. You can adjust the over-run timer from 3 to 20 minutes.	12993				
	C HCS-HUMIDITY: Measures ambient relative humidity. It starts the fan when the R.H. It incorporates an over-run timer (adjustable between 3 and 20 minutes).	12994				
	C PIR- MOVEMENT DETECTOR: Detects the presence of a moving body within its sensor range, and starts the fan automatically. You can adjust the over-run timer from 3 to 20 minutes.	12998				
	C TIMER: Adjustable over-run timer between 3 and 20 minutes.	12999				
		DIMENSIONS (mm)				
		Code	Model	A	B	C
		12992	C TEMP	144	54	55.8
		12993	C SMOKE	144	54	55.8
		12994	C HCS	144	54	55.8
		12998	C PIR	144	54	55.8
		12999	C TIMER	144	54	55.8

If external room sensors are connected, specific wiring is required.

	Description	Code	Models																																				
	AIR VALVE FOR EXTRACTION: - Ø 80 - Ø 125	22326 22327																																					
	AUTOMATIC AIR INLET: EA 15 BL Automatic air inlet 15 m³/h EA 30 BL Automatic air inlet 30 m³/h.	91012 91014																																					
	AUTOMATIC ACOUSTIC AIR INLET: EAA22-BL Automatic acoustic air inlet 22 m³/h EAA30-BL Automatic acoustic air inlet 30 m³/h EAA40-BL Automatic acoustic air inlet 45 m³/h.	91016 91018 91035	11582 11585																																				
	ADDITIONAL SPIGOT: Additional spigot.	22847																																					
	CONTROLS: External RF Receiver Module RF Remote Controller White. An additional remote-controlled radiofrequency RF device including a connection cable is available as an optional accessory and allows control of the appliance even if the position chosen for its installation is shielded from radio waves.	22479 22464																																					
	SPEED REGULATOR: three-speed selector switch.	22478	11585																																				
	<p>ELECTRIC HEATER: When the temperature and relative humidity of air entering and leaving the Prometeo unit are such that frost may form on the heat exchanger surface, this can affect the efficiency of the unit. It can also affect the completely automatic system in the VORT PROMETEO PLUS HR 400 and VORT PROMETEO PLUS HR 400 M that manages changes in fan speeds that, in the vast majority of cases, allow defrosting to be carried out. In particularly harsh climates, this may not solve the problem. In such cases, Vortice recommend the installation of a 500 W, 1200 W or 1800 W pre-heater on the air intake duct so that incoming air can be warmed.</p> <p>This heater will operate automatically for the minimum time needed and will ensure the problem of frosting is solved.</p>	22467 22468 22469	11582 11585																																				
SIZES (mm)																																							
		<table border="1"> <thead> <tr> <th>Code</th> <th>Model</th> <th>A</th> <th>B</th> <th>C</th> <th>Ø D</th> <th>E</th> <th>F</th> <th>Weight [kg]</th> </tr> </thead> <tbody> <tr> <td>22467</td> <td>Electric heater 500 W</td> <td>150</td> <td>285</td> <td>40</td> <td>150</td> <td>380</td> <td>250</td> <td>2.2</td> </tr> <tr> <td>22468</td> <td>Electric heater 1200 W</td> <td>150</td> <td>285</td> <td>40</td> <td>150</td> <td>380</td> <td>250</td> <td>2.6</td> </tr> <tr> <td>22469</td> <td>Electric heater 1800 W</td> <td>164</td> <td>278</td> <td>42</td> <td>147</td> <td>375</td> <td>250</td> <td>2.8</td> </tr> </tbody> </table>	Code	Model	A	B	C	Ø D	E	F	Weight [kg]	22467	Electric heater 500 W	150	285	40	150	380	250	2.2	22468	Electric heater 1200 W	150	285	40	150	380	250	2.6	22469	Electric heater 1800 W	164	278	42	147	375	250	2.8	
Code	Model	A	B	C	Ø D	E	F	Weight [kg]																															
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22469	Electric heater 1800 W	164	278	42	147	375	250	2.8																															

	Description	Code	Models																								
	<p>EXTERNAL FILTER BOX: F5 External Filter Box</p> <p>Galvanised filter box (F5) designed to simplify maintaining the VORT PROMETEO PLUS HR 400 and VORT PROMETEO PLUS HR 400 M. The filter box is fitted to the outside of the appliance and protects the intake and outlet ducts serving various rooms (replacing standard filters).</p> <p>Time spent on maintenance is less (thanks to a specially sized filter that guarantees perfect filtering characteristics even when the unit is used for long periods), and maintenance work is simplified as direct access to the Prometeco unit is not required.</p>	22329																									
	<p>FILTERS: F5 filter for VORT PROMETEO PLUS HR 400 and PROMETEO PLUS HR 400 M external filter box.</p> <p>F5 internal filter (single) for VORT PROMETEO PLUS HR 400 and PROMETEO PLUS HR 400 M.</p> <p>F7 internal filter (single) for VORT PROMETEO PLUS HR 400 and PROMETEO PLUS HR 400 M.</p>	22342 22321 22323																									
	<p>SCREWDRIVER: Hexagonal screwdriver for maintenance.</p>	22340																									
	<p>NOISE ATTENUATOR: - To be installed in the ventilation system, always after the fan, and/or the filter box/duct heater.</p> <ul style="list-style-type: none"> - Useful when noise level required is particularly low. - Working temperature: -30° +60° C. - Maximum working pressure: 2000 Pa. - Maximum air speed: 25 m/s max. <p style="text-align: center;">SIZES (mm)</p> <table border="1" data-bbox="679 1207 1241 1375"> <thead> <tr> <th>Code</th> <th>Model</th> <th>A</th> <th>Ø B</th> <th>Ø C</th> <th>Weight [kg]</th> </tr> </thead> <tbody> <tr> <td>22756</td> <td>NA 150 (Noise Attenuator)</td> <td>1000</td> <td>150</td> <td>266</td> <td>2</td> </tr> <tr> <td>22751</td> <td>Flexible Silencer 150/1000</td> <td>1000</td> <td>150</td> <td>200</td> <td>0.93</td> </tr> <tr> <td>22316</td> <td>Flexible Silencer 150/500</td> <td>500</td> <td>150</td> <td>200</td> <td>0.3</td> </tr> </tbody> </table>	Code	Model	A	Ø B	Ø C	Weight [kg]	22756	NA 150 (Noise Attenuator)	1000	150	266	2	22751	Flexible Silencer 150/1000	1000	150	200	0.93	22316	Flexible Silencer 150/500	500	150	200	0.3	22756 22751 22316	11582 11585
Code	Model	A	Ø B	Ø C	Weight [kg]																						
22756	NA 150 (Noise Attenuator)	1000	150	266	2																						
22751	Flexible Silencer 150/1000	1000	150	200	0.93																						
22316	Flexible Silencer 150/500	500	150	200	0.3																						
	<p>BACKDRAUGHT SHUTTER: - To be directly mounted in ventilation ducts or on fan outlet.</p> <ul style="list-style-type: none"> - Composed by a cylinder in electro galvanized sheet steel calendered and welded. - Closure and seal are ensured by a toroidal gasket in neoprene closed cell. <p style="text-align: center;">SIZES (mm)</p> <table border="1" data-bbox="624 1597 1238 1664"> <thead> <tr> <th>Code</th> <th>Model</th> <th>Ø A</th> <th>B</th> <th>C</th> <th>D</th> <th>Ø E</th> <th>Weight [kg]</th> </tr> </thead> <tbody> <tr> <td>22562</td> <td>IN LINE-S 150</td> <td>146</td> <td>28</td> <td>120</td> <td>36.5</td> <td>153</td> <td>0.353</td> </tr> </tbody> </table>	Code	Model	Ø A	B	C	D	Ø E	Weight [kg]	22562	IN LINE-S 150	146	28	120	36.5	153	0.353	22562									
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22562	IN LINE-S 150	146	28	120	36.5	153	0.353																				
	<p>GRAVITY SHUTTER: - To be installed at the duct outlet on vertical wall.</p> <ul style="list-style-type: none"> - Useful to avoid air return from the outside and to protect the product. - Totally manufactured from shockproof thermoplastic anti UV resin. - Flaps are shaped in order to avoid their block. <p style="text-align: center;">SIZES (mm)</p> <table border="1" data-bbox="628 1957 1243 2024"> <thead> <tr> <th>Code</th> <th>Model</th> <th>Ø A</th> <th>B</th> <th>C</th> <th>Ø D</th> <th>Nr flaps</th> </tr> </thead> <tbody> <tr> <td>22334</td> <td>GGR 150/160</td> <td>155</td> <td>8</td> <td>28</td> <td>198</td> <td>6</td> </tr> </tbody> </table>	Code	Model	Ø A	B	C	Ø D	Nr flaps	22334	GGR 150/160	155	8	28	198	6	22334											
Code	Model	Ø A	B	C	Ø D	Nr flaps																					
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	Description	Code	Models																								
	<p>FIXED GRILLE: - To be mounted at the beginning or the end of a ventilation duct.</p> <p>- Totally manufactured from shockproof thermoplastic anti UV resin.</p> <p style="text-align: center;">SIZES (mm)</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Model</th> <th>Ø A</th> <th>B</th> <th>C</th> <th>Ø D</th> </tr> </thead> <tbody> <tr> <td>22165</td> <td>FG 100</td> <td>99</td> <td>8</td> <td>28</td> <td>140</td> </tr> <tr> <td>22166</td> <td>FG 125</td> <td>119</td> <td>8</td> <td>28</td> <td>160</td> </tr> <tr> <td>22167</td> <td>FG 150</td> <td>155</td> <td>8</td> <td>28</td> <td>198</td> </tr> </tbody> </table>	Code	Model	Ø A	B	C	Ø D	22165	FG 100	99	8	28	140	22166	FG 125	119	8	28	160	22167	FG 150	155	8	28	198	22165 22166 22167	
Code	Model	Ø A	B	C	Ø D																						
22165	FG 100	99	8	28	140																						
22166	FG 125	119	8	28	160																						
22167	FG 150	155	8	28	198																						
	<p>GRILLE KIT: - To be mounted at the beginning or the end of a ventilation duct.</p> <p>- Totally manufactured from shockproof thermoplastic anti UV resin.</p> <p style="text-align: center;">SIZES (mm)</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Model</th> <th>Ø A</th> <th>B</th> <th>C</th> <th>Ø D</th> </tr> </thead> <tbody> <tr> <td>22140</td> <td>D 100</td> <td>99</td> <td>8</td> <td>28</td> <td>140</td> </tr> <tr> <td>22141</td> <td>D 125</td> <td>119</td> <td>8</td> <td>28</td> <td>160</td> </tr> <tr> <td>22142</td> <td>D 150</td> <td>155</td> <td>8</td> <td>28</td> <td>198</td> </tr> </tbody> </table>	Code	Model	Ø A	B	C	Ø D	22140	D 100	99	8	28	140	22141	D 125	119	8	28	160	22142	D 150	155	8	28	198	22140 22141 22142	
Code	Model	Ø A	B	C	Ø D																						
22140	D 100	99	8	28	140																						
22141	D 125	119	8	28	160																						
22142	D 150	155	8	28	198																						
	<p>AIR VALVE: - To be applied to plafond, ceilings, ventilation ducts, double-ceilings etc.</p> <p>- Allow flow rate regulation with a simple adjustment of the rotating core.</p> <p>- White thermoplastic polystyrene.</p> <p style="text-align: center;">SIZES (mm)</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Model</th> <th>A</th> <th>Ø B</th> <th>Ø C</th> <th>Ø D</th> </tr> </thead> <tbody> <tr> <td>22189</td> <td>AV 100</td> <td>13</td> <td>80</td> <td>140</td> <td>140</td> </tr> <tr> <td>22190</td> <td>AV 125</td> <td>15</td> <td>115</td> <td>166</td> <td>160</td> </tr> <tr> <td>22191</td> <td>AV 150</td> <td>17</td> <td>130</td> <td>204</td> <td>198</td> </tr> </tbody> </table>	Code	Model	A	Ø B	Ø C	Ø D	22189	AV 100	13	80	140	140	22190	AV 125	15	115	166	160	22191	AV 150	17	130	204	198	22189 22190 22191	
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	<p>INSULATED ALUMINIUM FLEXIBLE DUCT: - Ideal for ventilation and air conditioning, low heat dissipation, condensation, noise and for high pressure.</p> <p>- Totally manufactured from aluminium with internal thermal insulation by standard fiberglass (25 mm 16 kg/m³).</p> <p>- Length 4 m (Ø 100 mm - 150 mm).</p> <p style="text-align: center;">SIZES (mm)</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Model</th> <th>A</th> <th>Ø B</th> </tr> </thead> <tbody> <tr> <td>22182</td> <td>AFD-I 100-4</td> <td>4000</td> <td>102</td> </tr> <tr> <td>22183</td> <td>AFD-I 125-4</td> <td>4000</td> <td>127</td> </tr> <tr> <td>22184</td> <td>AFD-I 150-4</td> <td>4000</td> <td>152</td> </tr> </tbody> </table>	Code	Model	A	Ø B	22182	AFD-I 100-4	4000	102	22183	AFD-I 125-4	4000	127	22184	AFD-I 150-4	4000	152	22182 22183 22184									
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Code 5.170.084.664

06/12

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