

# Duplexvent MULTI

Heat Recovery Ventilation



2016 / 2018

## KEY FEATURES

- Heat recovery ventilation
- 100% customisation
- 93% thermal efficiency
- Low energy EC fans
- Automatic 100% bypass
- Built-in heating / cooling coils
- Integrated web server enables to control the unit via internet
- BMS connection (Modbus as a standard, optional BACnet or KNX)
- VAV control compatibility
- 2 year warranty +

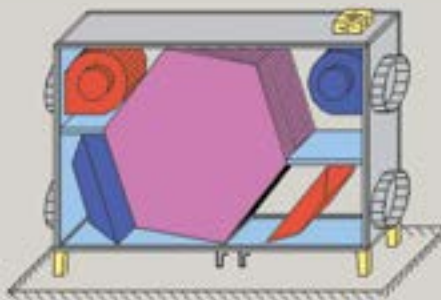
## Duplexvent MULTI

As a ventilation specialist we aim to provide ventilation solutions for commercial applications thanks to our broad range of Commercial Heat Recovery units in excess of 16,000 m<sup>3</sup>/hr air volume with the availability of indoor and outdoor versions.

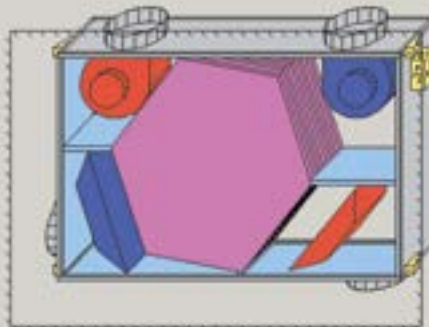
To accomplish this goal, our Passive House approved, ex-stock Flexi Line units provide the highest thermal efficiency with immediate delivery whilst our customised Multi and Rotary Line units match your specification in terms of installation flexibility, performance and quality by meeting the high air volume requirements for commercial and large industrial spaces.

+ excludes motors. Motor warranty one year from date of purchase.

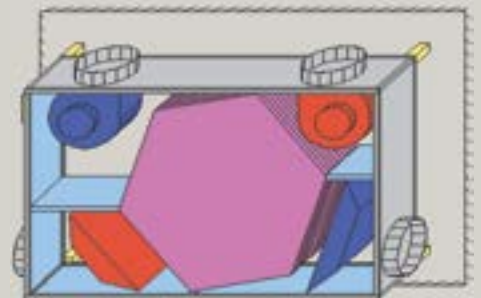
## MULTI LINE UNIT CONFIGURATIONS



**Horizontal**  
(Maintenance access from the side)



**Ceiling suspended**  
(Maintenance access from the bottom)



**Floor standing**  
(Maintenance access from the top)

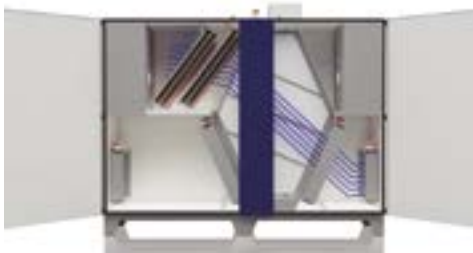




## 100% CUSTOMISATION AND SHORT DELIVERY TIME

Multi Line MVHR units follow the business philosophy of multiple variability. Designers can easily modify unit positions, spigot connections, filters, integral heating / cooling coils, bypass and circulation dampers using the selection software which accelerates the specification process and helps meet stringent project requirements.

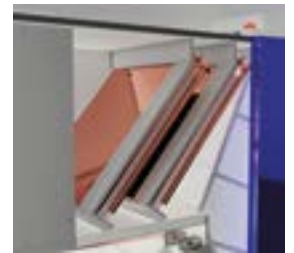
Despite the full customisation Multi Line units are delivered in a period of **4-6 weeks** to meet tight project deadlines.



**100% Bypass facility** delivers cool, fresh and filtered air

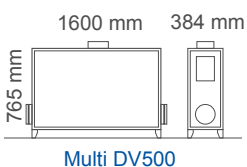


**Circulation damper** helps regulate indoor temperature / humidity conditions

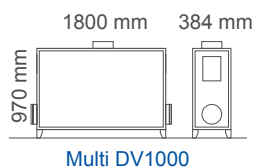


**Built-in water / DX coils** extra heating / cooling

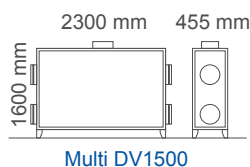
## DUPLEXVENT MULTI SIZE RANGE



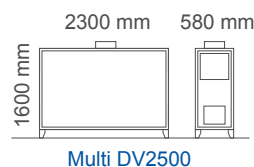
Multi DV500



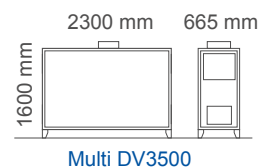
Multi DV1000



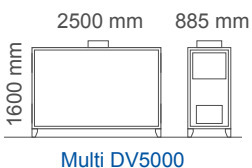
Multi DV1500



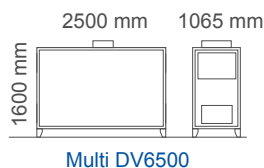
Multi DV2500



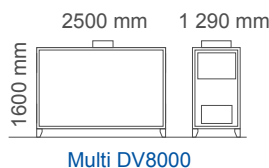
Multi DV3500



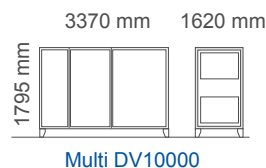
Multi DV5000



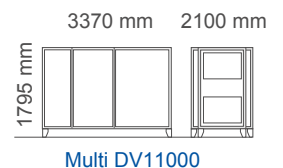
Multi DV6500



Multi DV8000



Multi DV10000



Multi DV11000



# Duplexvent MULTI

Multi Line Customised Indoor -  
Up to 13050m<sup>3</sup>/hr air volume



2016 / 2018

## KEY FEATURES

- Fully customised commercial units in 10 different sizes up to 12500 m<sup>3</sup>/hr at 200 Pa
- Digital touchscreen or simple manual controller
- Low noise, refer to NR35 and BB93 standards
- Excellent thermal insulation (class T2, TB1)
- G4, M5 or F7 filters available
- Optional circulation damper
- Optional constant flow and constant pressure mode
- BREEAM and ErP 2016 / 2018 compliant
- Meets Building Regulations Part L2A and L2B

## PERFORMANCE

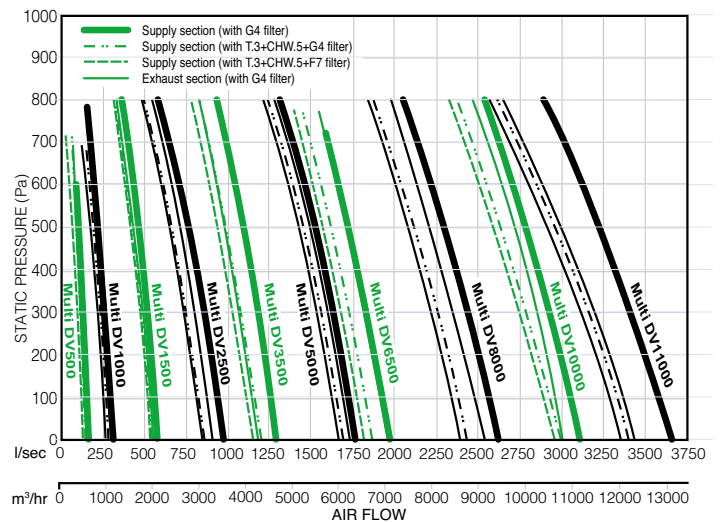
Duplexvent Multi		DV500	DV1000	DV1500	DV2500	DV3500	DV5000	DV6500	DV8000	DV10000	DV11000
Supply air - max. <sup>1</sup>	m <sup>3</sup> /hr / l/sec	660 / 183	1200 / 333	2200 / 611	3400 / 944	4600 / 1278	6400 / 1778	7100 / 1972	9600 / 2667	11100 / 3083	13050 / 3625
Extraction air - max. <sup>1</sup>	m <sup>3</sup> /hr / l/sec	670 / 186	1150 / 319	1800 / 500	3200 / 889	4200 / 1166	6350 / 1764	7050 / 1958	9100 / 2528	10700 / 2972	12300 / 3417
Heat recovery efficiency <sup>2</sup>	%	up to 93%									
Fan type		EC (backward curved impeller)									
Weight <sup>3</sup>	kg	80-110	95-130	200-280	290-370	320-390	370-450	480-560	580-670	1170-1280	1230-1350
Max power input	kW	0.3	0.7	1.2	2.6	4.5	6.7	7.3	9.3	10.7	10.8
Voltage	V	230					400				
Frequency	Hz	50									
RPM - max.	min <sup>-1</sup>	4300	3350	2920	3000	2980	2700	2820	2570	2570	2130
Heating output T - max. <sup>4</sup>	kW	5	14	22	30	42	51	71	88	95	100
Cooling output CHW - max. <sup>4</sup>	kW	4	8	16	22	30	42	56	62	65	70
Cooling output CHF - max. <sup>4</sup>	kW	3	6	10	13	25	37	41	50	60	65
Part No.		9041571	9041572	9041573	9041521	9041522	9041523	9041524	9041525	90000815	90000816

1. Maximum flow rate at zero external pressure
2. According to air volume
3. Depending on equipment
4. Depending on register type, liquid and flow rates

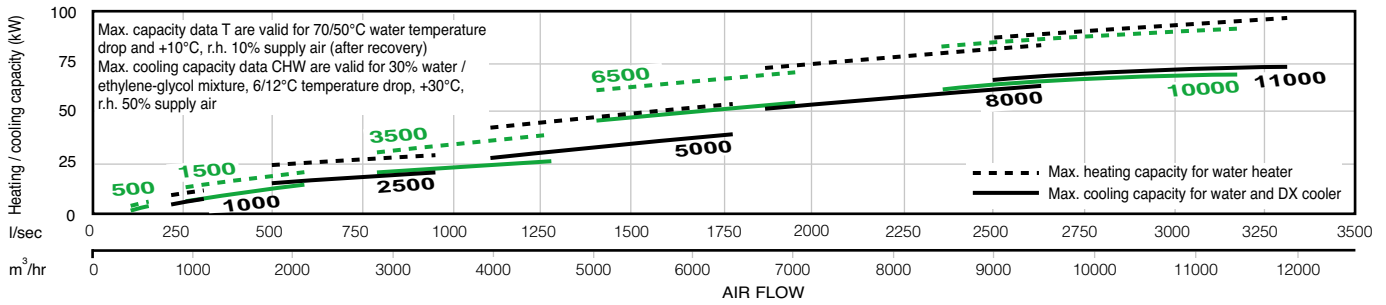
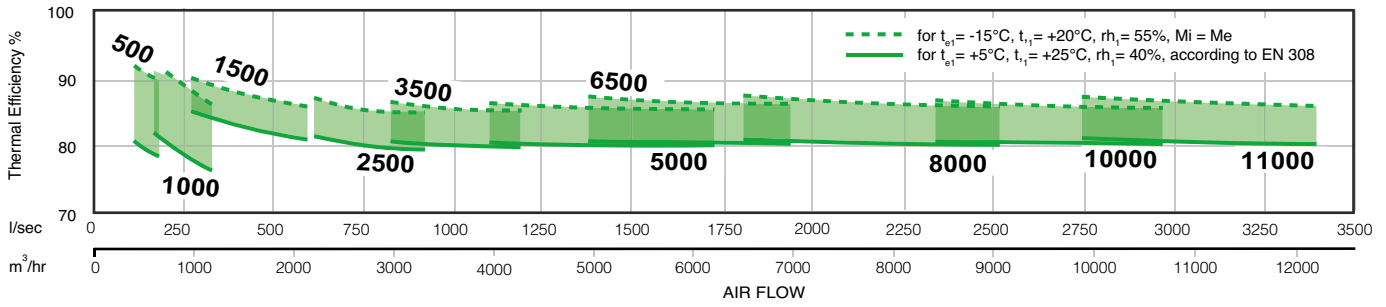
T - Water heating coil  
CHW - Water cooling coil  
CHF - DX (direct evaporator) coil

## ACOUSTIC POWER $L_w$ AND PRESSURE $L_p$

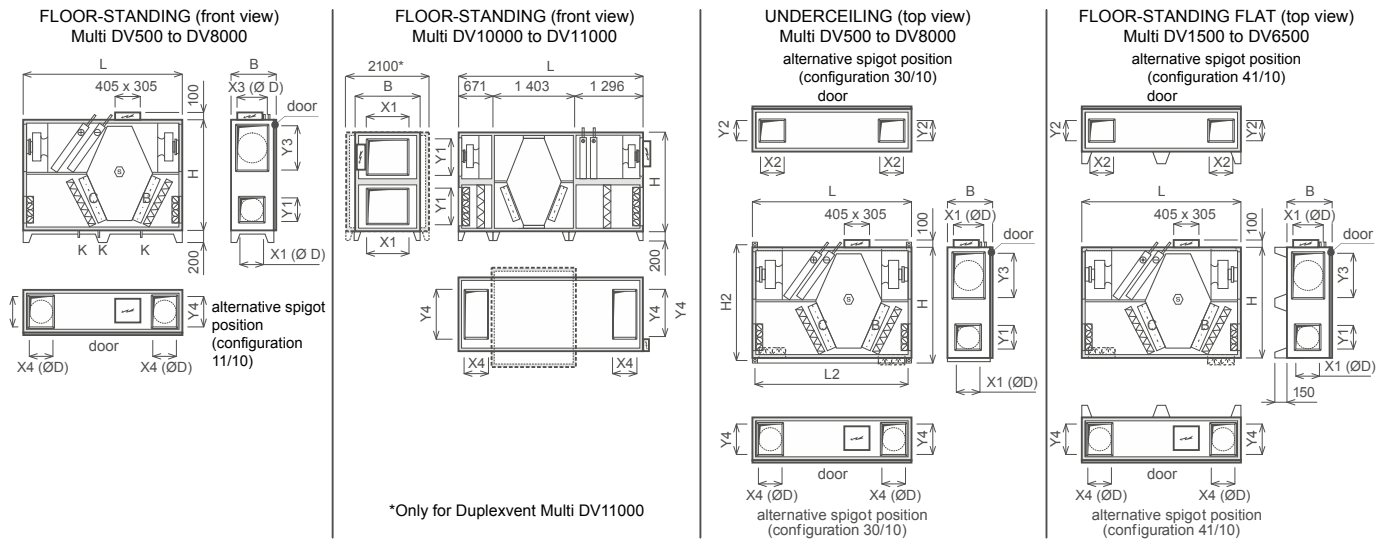
Type	Working point	Acoustic power $L_w$ [dB(A)]					Acoustic pressure $L_p$ [dB(A)] at 3 m
		inlet e <sub>1</sub>	inlet i <sub>1</sub>	inlet e <sub>2</sub>	inlet i <sub>2</sub>	unit	
Duplexvent Multi DV500	500m <sup>3</sup> /hr (200Pa)	53	66	80	82	59	38
Duplexvent Multi DV1000	1000m <sup>3</sup> /hr (200Pa)	66	65	85	86	62	42
Duplexvent Multi DV1500	1500m <sup>3</sup> /hr (200Pa)	61	61	86	86	64	43
Duplexvent Multi DV2500	2500m <sup>3</sup> /hr (200Pa)	59	55	79	79	70	49
Duplexvent Multi DV3500	3500m <sup>3</sup> /hr (200Pa)	60	59	91	88	70	49
Duplexvent Multi DV5000	5000m <sup>3</sup> /hr (200Pa)	68	67	91	93	78	48
Duplexvent Multi DV6500	6500m <sup>3</sup> /hr (200Pa)	70	71	95	95	76	55
Duplexvent Multi DV8000	8000m <sup>3</sup> /hr (200Pa)	75	74	99	96	69	49
Duplexvent Multi DV10000	9000m <sup>3</sup> /hr (200Pa)	66	67	98	97	74	53
Duplexvent Multi DV11000	10000m <sup>3</sup> /hr (200Pa)	63	64	88	88	73	52



# PERFORMANCE



# DIMENSIONS



Duplexvent Multi		DV500	DV1000	DV1500	DV2500	DV3500	DV5000	DV6500	DV8000	DV10000	DV11000	
Dimension H	mm	765	970	1600	1600	1600	1600	1600	1600	1795	1795	
Dimension H2	mm	715	920	1650	1650	1650	1650	1650	1650	-	-	
Dimension B	mm	384	384	455	580	665	885	1065	1295 / 1390*	1620	1620	
Length L	mm	1600	1800	2300	2300	2300	2500	2500	2500	3370	3370	
Length L2	mm	1652	1852	2270	2270	2270	2470	2470	2368	-	-	
Condensate drain	mm	Ø22					Ø32					
<b>Connecting Ports</b>												
Dimension X1 x Y1 (standard e <sub>1</sub> , i <sub>1</sub> ), D	mm	Ø200	Ø250	Ø315	300 x 400	400 x 400	500 x 500	500 x 500	700 x 500	900 x 710	900 x 710	
Dimension X2 x Y2 (atypical e <sub>2</sub> , i <sub>2</sub> ), D	mm	Ø200	Ø250	400 x 200	300 x 400	400 x 400	500 x 500	500 x 500	500 x 700	-	-	
Dimension X3 x Y3 (standard e <sub>2</sub> , i <sub>2</sub> )	mm	200 x 250	200 x 350	Ø315	450 x 710	500 x 710	710 x 710	900 x 710	900 x 710	-	-	
Dimension X4 x Y4 (atypical e <sub>2</sub> , i <sub>2</sub> )	mm	-	-	-	250 x 355	250 x 400	355 x 630	355 x 800	355 x 900	400 x 1200	400 x 1200	

\*For Duplexvent Multi DV8000 in configuration 30/X

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