



infinity[®] Topflo[®]

HRPVX-EC - Vertical HRU

Counterflow Heat Recovery Units
Vertical Intake and Discharge

Up to 2.1 m³/s

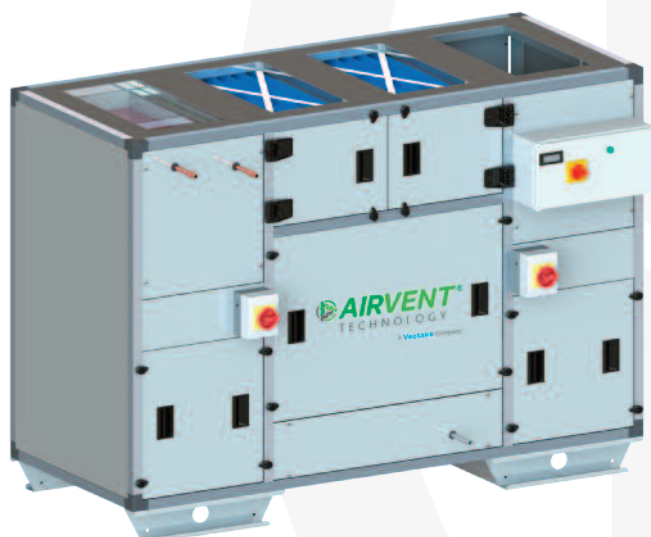
ErP COMPLIANT



Features and benefits

HRPVX-EC

- 3 sizes, left or right configuration
- ErP 2018 compliant
- EC fans to suit L2
- Fitted Controls
- Optional internal heater (LPHW or Electric)



MODEL DESCRIPTION

HRPVX-1EC-L
| | | | | | |
1 2 3 4 5 6 7

- 1 - HR - heat recovery
- 2 - P - plant room
- 3 - V - vertical intake and discharge
- 4 - X - counterflow heat exchanger
- 5 - 1 - model size
- 6 - EC - EC motor
- 7 - L - left handing

Low energy use - Direct Drive EC Fans

Latest energy efficient EC fans to meet L2 regulations and provide the best available acoustic and power performance.

Counterflow Heat Exchanger for increased energy recovery

- ErP compliant heat exchangers
- Motorised and full bypass for summer ventilation
- No mixing of airflows

F7 and M5 filters fitted as standard

Grade F7 (supply) and M5 (extract) filters to meet ErP regulations

Enhanced case construction to reduce noise breakout

25mm double skin construction on all units to reduce noise breakout

Acoustic high-density infill option available

Compact solution to assist installation in restricted areas

Ideal for locations within internal cupboards and plant spaces where plant footprint is limited

Multiple access for easy maintenance

- Controls fitted to front of unit for easy commissioning and isolation.
- Front access for fans, PHXE and filter maintenance.

Energy Saving Controls

- Factory fitted controls available
- basic and enhanced controls to suit most requirements
- demand ventilation via CO₂ or PIR

Additional Options

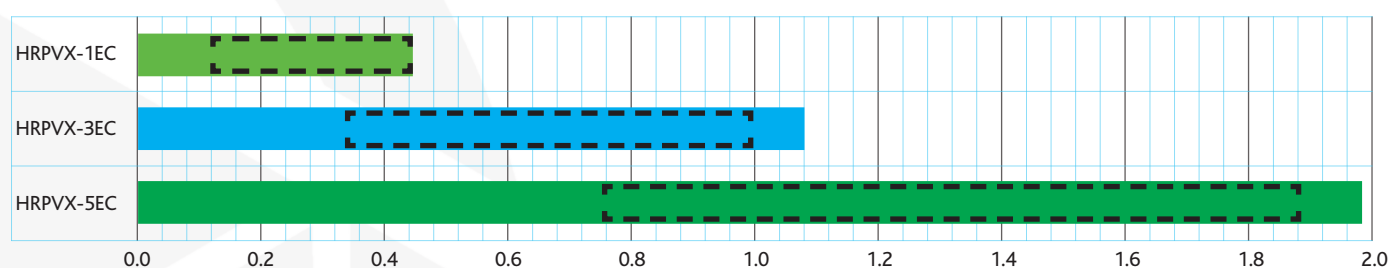
- external DX or chilled water cooling modules
- shut-off dampers
- sound attenuators

Please contact AVT for ancillary codes

Products manufactured in the UK to ISO 9001:2015 and ISO 14001:2015

Selection Chart

Maximum Air Volume (m³/sec)
at 150Pa External Static



- recommended air volume range

SUPPLY

RETURN

FRESH

EXHAUST

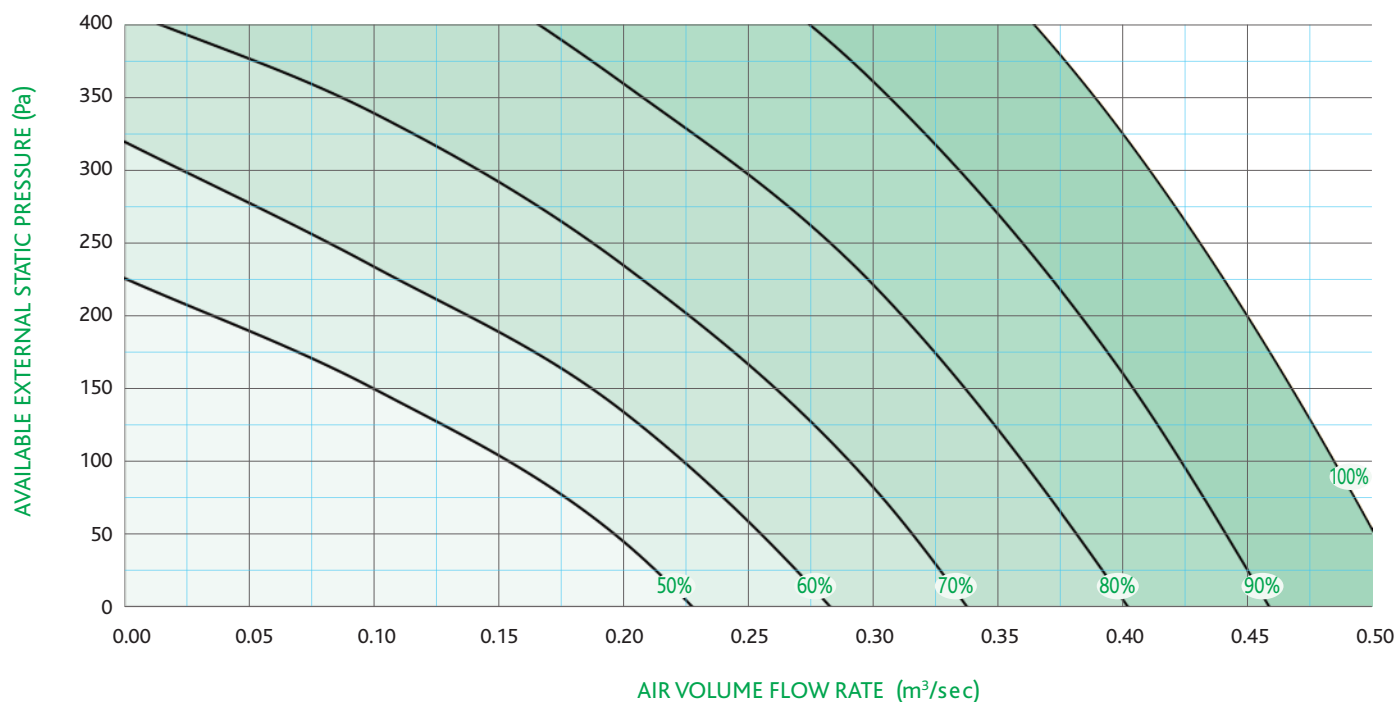


NB: ABOVE MODEL IS HRPVX-5EC-L (left handing)

HRPVX-EC - Vertical Heat Recovery Units with EC Motors

TECHNICAL DATA - HRPVX-1EC

FAN SPEED



ELECTRICAL DATA per FAN
Maximum drawn current for UNIT - 6A
(fuse/circuit breaker rating does NOT include ancillaries)

MODEL

FAN POWER
kW

SUPPLY

FLC
A

HRPVX-1EC

0.5

230V 1Ph

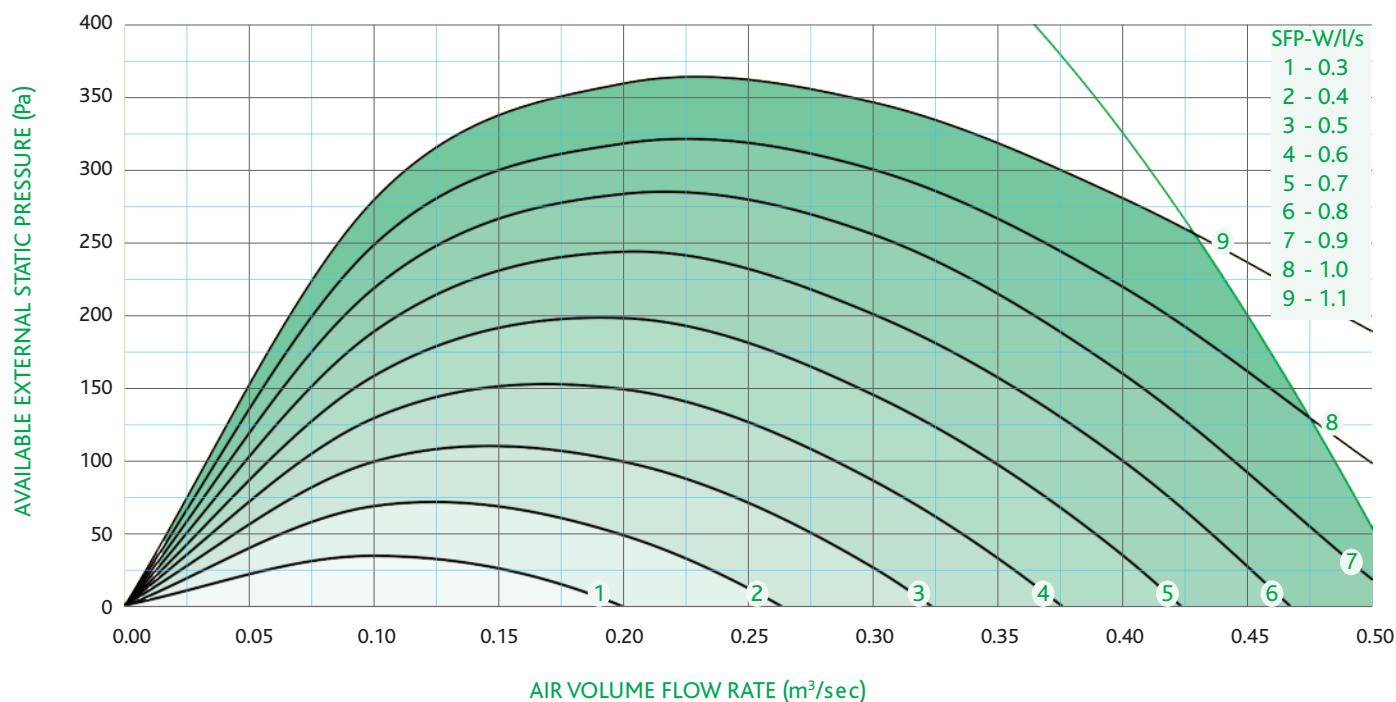
2.5

HRPVX-1EC @ 150 Pa External Static		Mid Octave Frequency band / Hz								SWL In Duct		Breakout @ 1m		Breakout @ 3m	
		63	125	250	500	1k	2k	4k	8k	dB	dB(A)	dB(A)	NR	dB(A)	NR
0.47m³/s @100%	Inlet in duct dB	75	55	69	65	64	59	56	53	77	68	46	45	37	35
	Outlet in duct dB	79	59	74	70	74	69	65	61	82	77				
0.41m³/s @90%	Inlet in duct dB	65	56	66	62	62	57	54	51	71	66	44	43	34	33
	Outlet in duct dB	68	60	72	68	72	67	62	58	77	75				
0.34m³/s @80%	Inlet in duct dB	57	63	65	61	59	54	51	47	69	64	43	42	33	32
	Outlet in duct dB	59	67	71	66	70	64	59	54	76	73				
0.26m³/s @70%	Inlet in duct dB	57	67	60	58	56	52	47	43	69	61	41	38	32	27
	Outlet in duct dB	58	73	66	63	66	60	55	50	75	69				
0.19m³/s @60%	Inlet in duct dB	57	68	54	54	50	47	42	36	69	57	39	37	29	26
	Outlet in duct dB	57	71	58	59	60	55	49	43	72	64				
0.10m³/s @50%	Inlet in duct dB	72	70	59	56	51	46	40	33	74	59	41	38	31	27
	Outlet in duct dB	72	71	63	60	60	55	47	40	75	64				

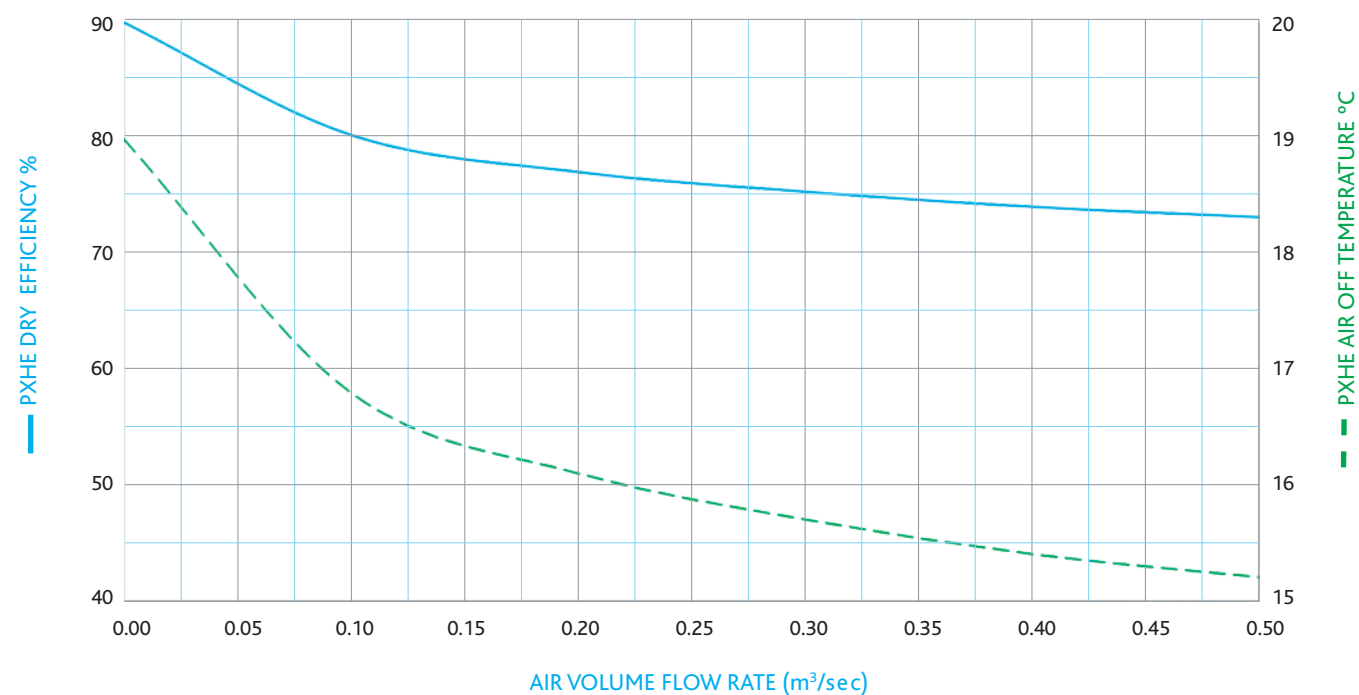
HRPVX-EC - Vertical Heat Recovery Units with EC Motors

TECHNICAL DATA - HRPVX-1EC

SPECIFIC FAN POWER - FOR EACH FAN



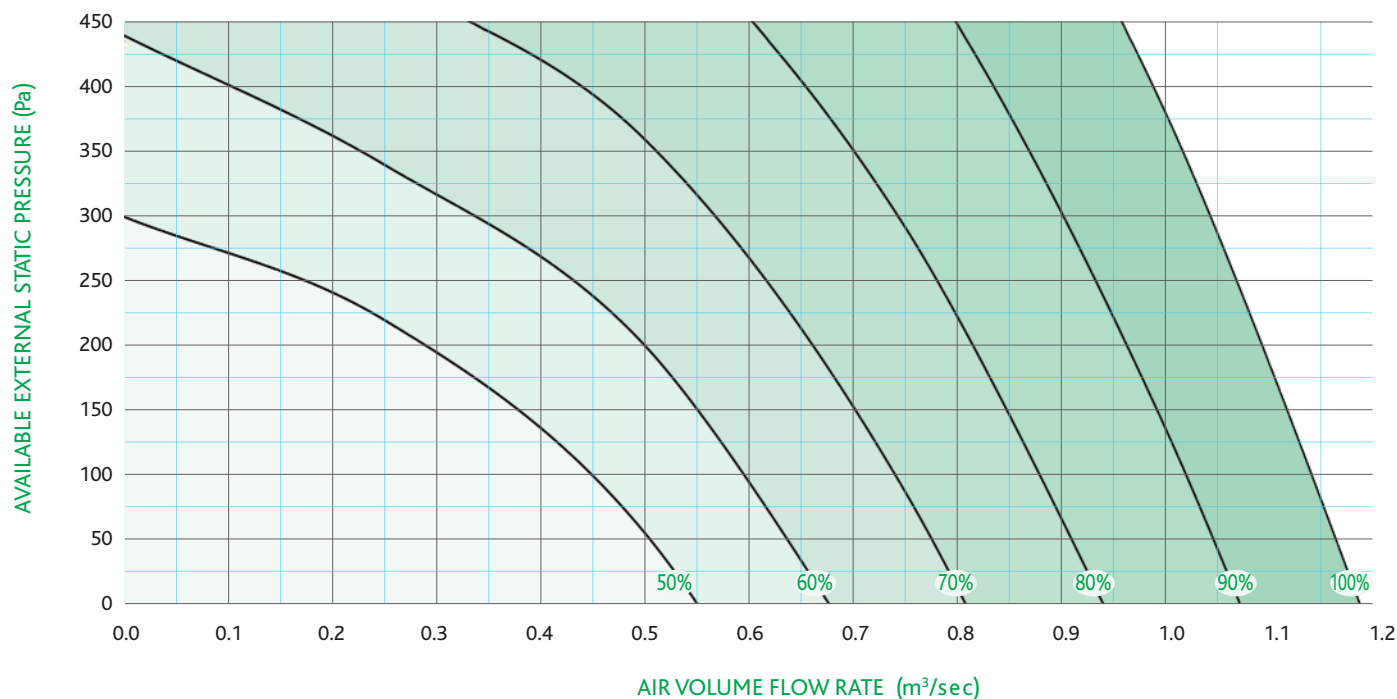
PXHE EFFICIENCY CURVES AT 20°C RETURN AIR AND -5°C FRESH AIR



HRPVX-EC - Vertical Heat Recovery Units with EC Motors

TECHNICAL DATA - HRPVX-3EC

FAN SPEED



ELECTRICAL DATA per FAN
Maximum drawn current for UNIT - 15A
(fuse/circuit breaker rating does NOT include ancillaries)

MODEL

FAN POWER
kW

SUPPLY

FLC
A

HRPVX-3EC

1.3

230V 1Ph

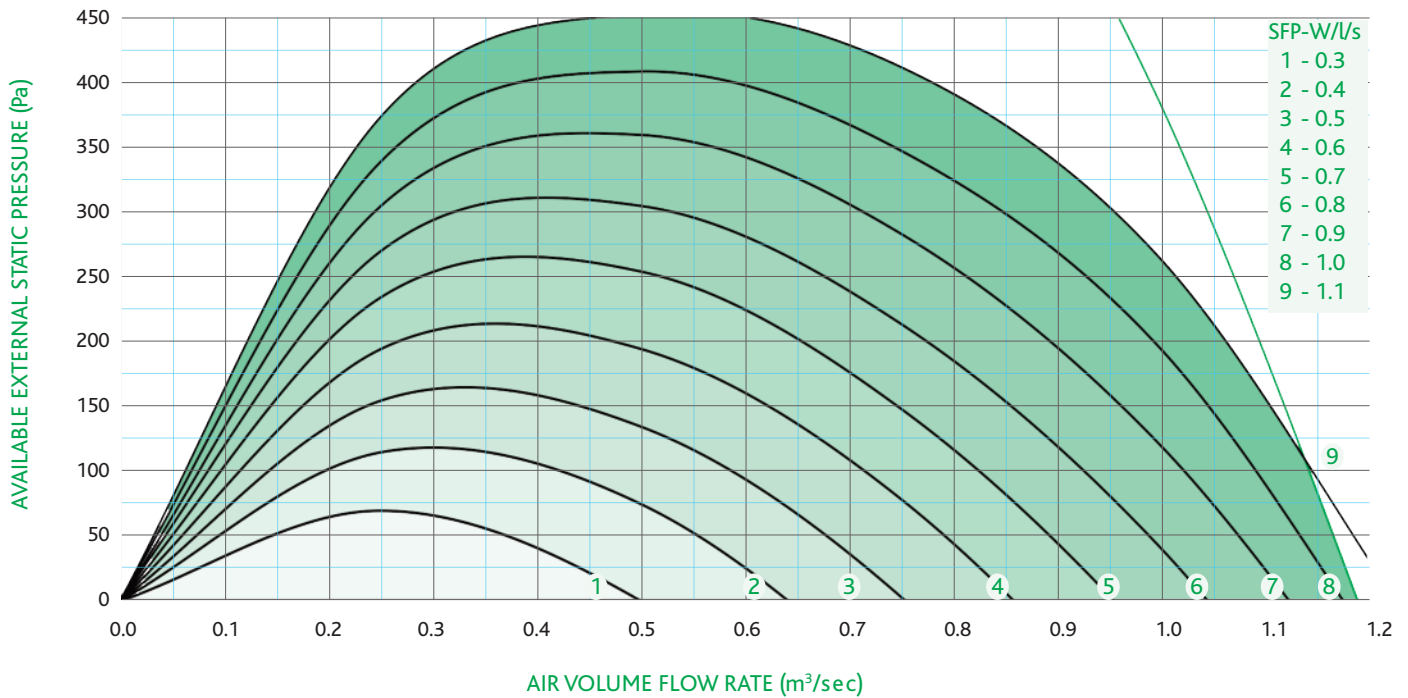
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HRPVX-3EC @ 150 Pa External Static		Mid Octave Frequency band / Hz								SWL In Duct		Breakout @ 1m		Breakout @ 3m	
		63	125	250	500	1k	2k	4k	8k	dB	dB(A)	dB(A)	NR	dB(A)	NR
1.12m³/s @100%	Inlet in duct dB	73	73	76	73	68	64	62	65	81	75	53	53	43	42
	Outlet in duct dB	74	74	81	77	78	78	73	73	86	84				
1.00m³/s @90%	Inlet in duct dB	70	70	70	69	64	62	59	61	76	71	49	48	40	38
	Outlet in duct dB	71	71	77	74	75	75	71	70	83	81				
0.85m³/s @80%	Inlet in duct dB	67	65	66	65	61	59	57	56	73	67	46	45	36	35
	Outlet in duct dB	68	68	74	71	72	72	67	65	80	77				
0.70m³/s @70%	Inlet in duct dB	64	63	61	61	58	56	53	51	69	64	41	38	31	27
	Outlet in duct dB	65	69	67	67	69	68	63	60	76	74				
0.55m³/s @60%	Inlet in duct dB	64	65	58	57	53	51	48	45	69	59	38	33	28	22
	Outlet in duct dB	64	68	62	64	65	63	59	55	73	69				
0.38m³/s @50%	Inlet in duct dB	57	65	55	53	51	48	43	37	66	57	37	33	27	22
	Outlet in duct dB	58	69	60	60	60	59	53	48	71	65				

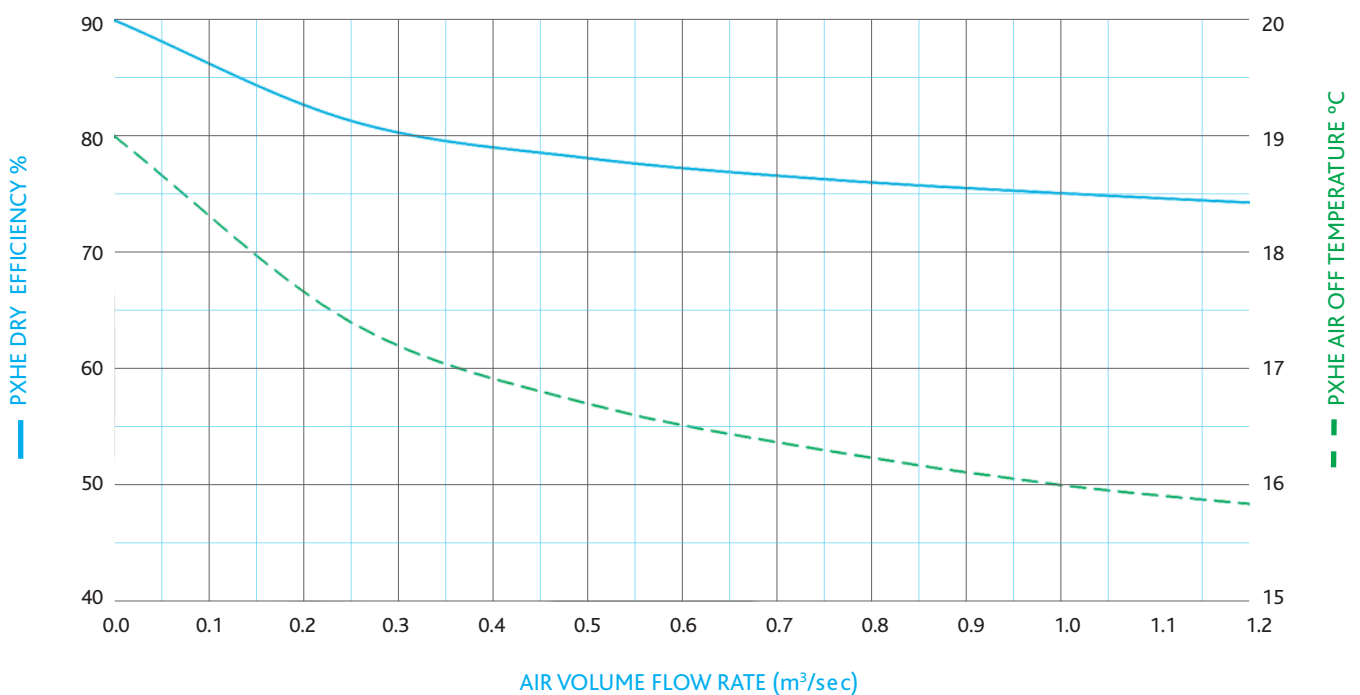
HRPVX-EC - Vertical Heat Recovery Units with EC Motors

TECHNICAL DATA - HRPVX-3EC

SPECIFIC FAN POWER - FOR EACH FAN



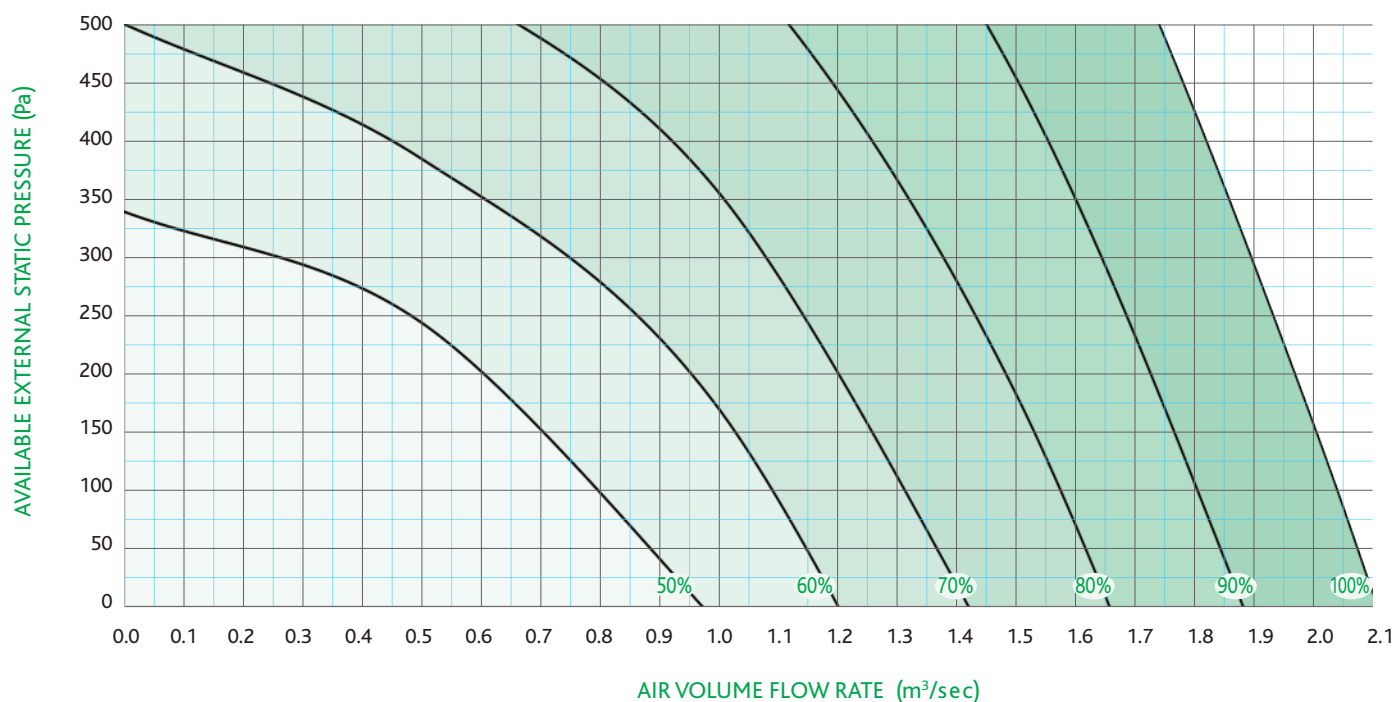
PHXE EFFICIENCY CURVES AT 20°C RETURN AIR AND -5°C FRESH AIR



HRPVX-EC - Vertical Heat Recovery Units with EC Motors

TECHNICAL DATA - HRPVX-5EC

FAN SPEED



ELECTRICAL DATA per FAN
Maximum drawn current for UNIT - 10A
(fuse/circuit breaker rating does NOT include ancillaries)

MODEL

FAN POWER
kW

SUPPLY

FLC
A

HRPVX-5EC

2.5

400V 3Ph

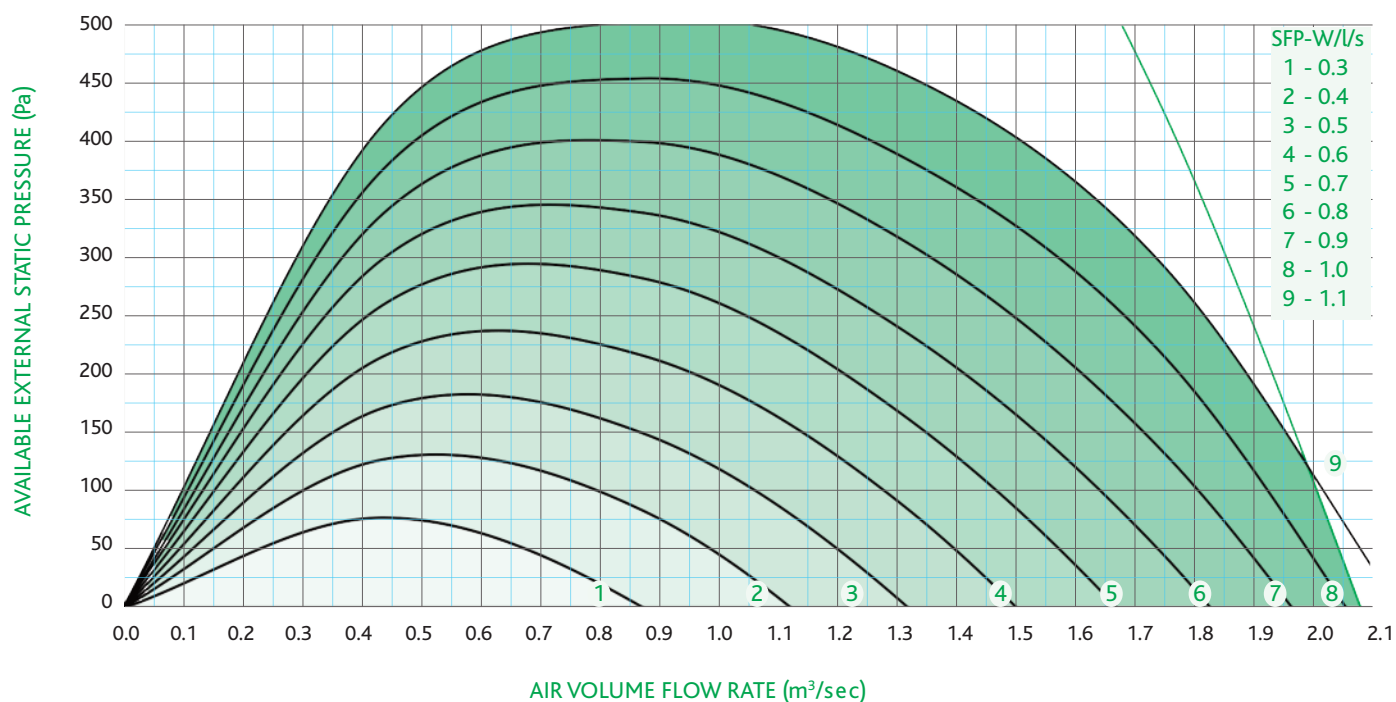
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HRPVX-5EC @ 150 Pa External Static		Mid Octave Frequency band / Hz								SWL In Duct		Breakout @ 1m		Breakout @ 3m	
		63	125	250	500	1k	2k	4k	8k	dB	dB(A)	dB(A)	NR	dB(A)	NR
2.00m³/s @100%	Inlet in duct dB	77	77	80	79	71	68	68	72	85	80	59	59	49	49
	Outlet in duct dB	78	79	87	84	82	77	74	77	91	87				
1.76m³/s @90%	Inlet in duct dB	76	76	76	74	68	65	64	67	82	76	54	54	45	44
	Outlet in duct dB	76	80	82	81	79	74	70	71	87	83				
1.54m³/s @80%	Inlet in duct dB	73	75	74	70	65	62	61	62	80	72	51	48	42	38
	Outlet in duct dB	73	81	76	78	76	71	67	67	85	80				
1.26m³/s @70%	Inlet in duct dB	66	69	67	66	62	59	57	54	74	68	45	42	36	32
	Outlet in duct dB	67	75	71	74	72	68	63	59	80	76				
1.02m³/s @60%	Inlet in duct dB	60	69	64	63	60	55	53	47	72	65	44	40	34	29
	Outlet in duct dB	62	75	66	72	69	64	59	53	78	73				
0.70m³/s @50%	Inlet in duct dB	65	67	60	58	55	51	45	39	70	60	40	37	31	26
	Outlet in duct dB	66	72	63	67	64	59	51	45	75	68				

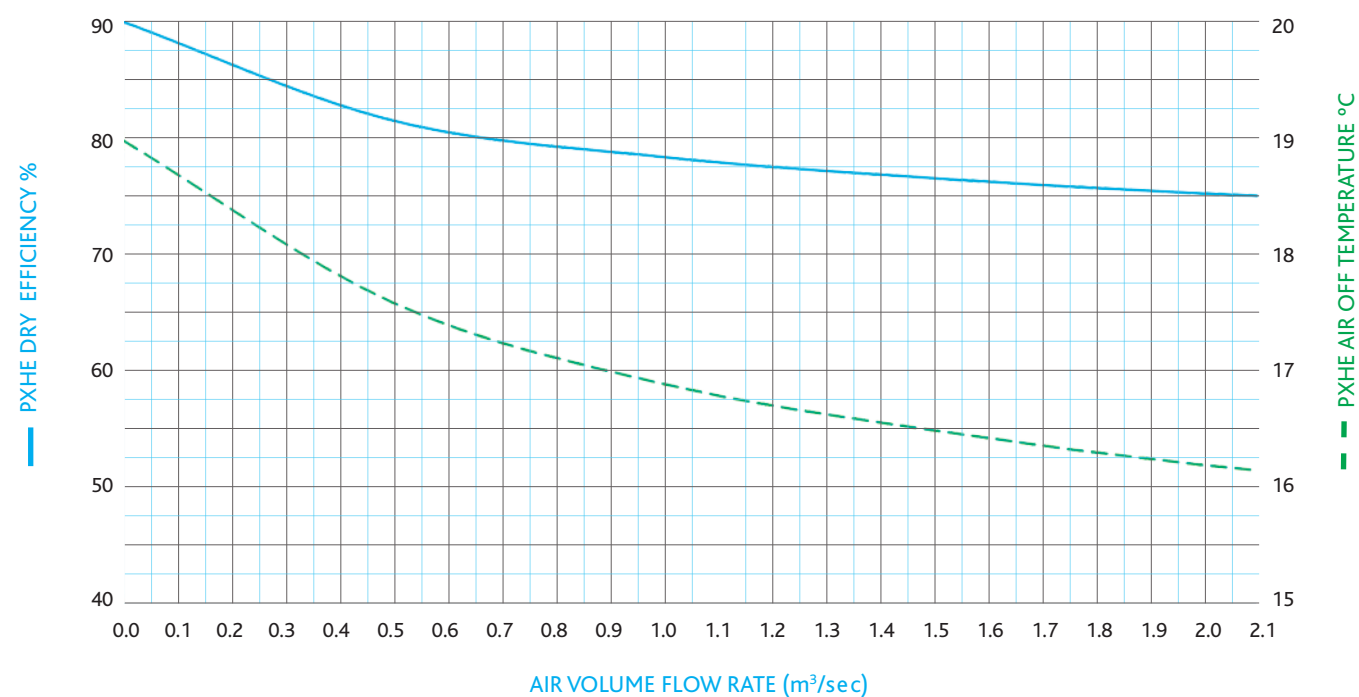
HRPVX-EC - Vertical Heat Recovery Units with EC Motors

TECHNICAL DATA - HRPVX-5EC

SPECIFIC FAN POWER - FOR EACH FAN

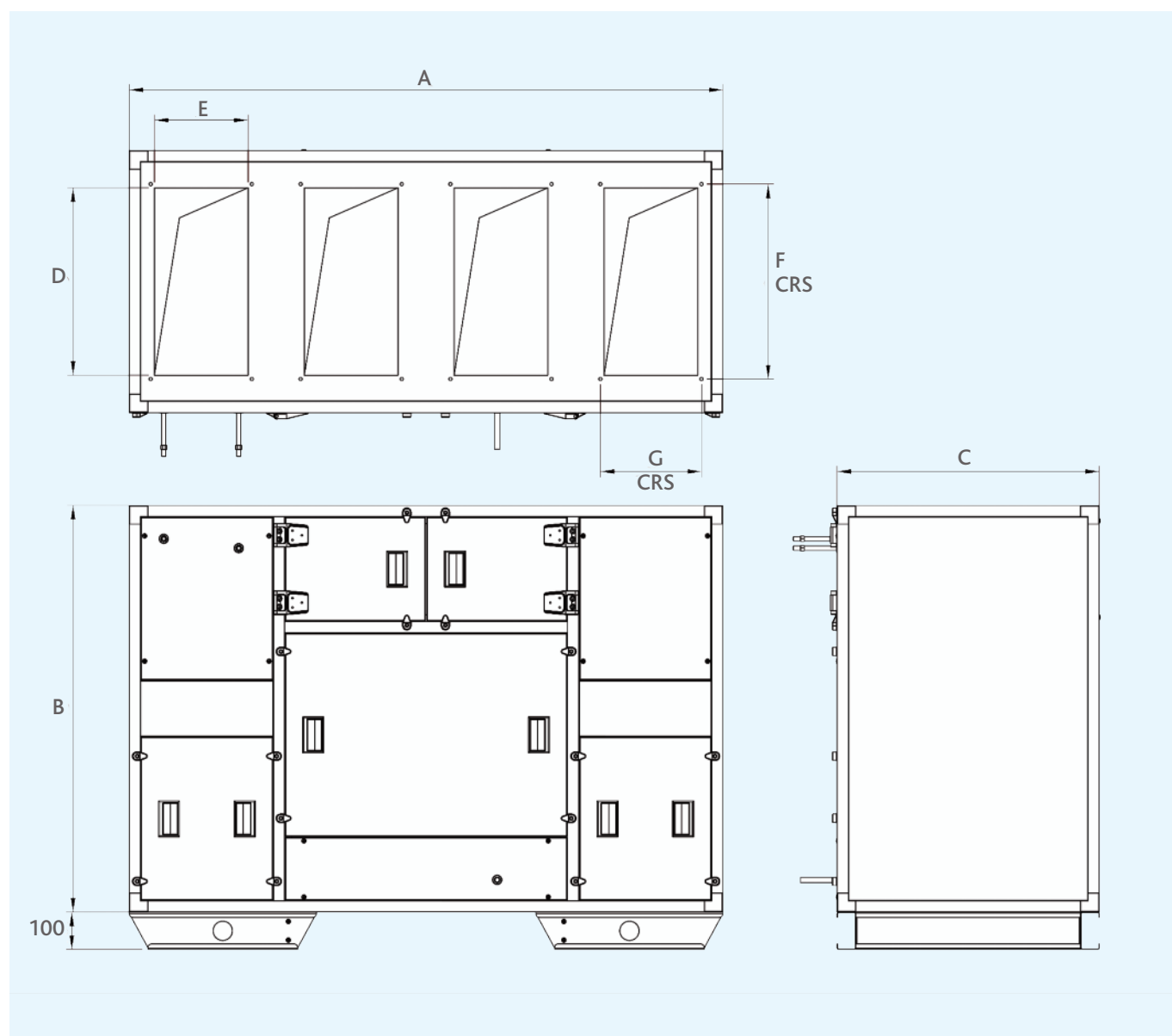


PXHE EFFICIENCY CURVES AT 20°C RETURN AIR AND -5°C FRESH AIR



HRPVX-EC - Vertical Heat Recovery Units with EC Motors

DIMENSIONS



Model	A - mm	B - mm	C - mm	D - mm	E - mm	F - mm	G - mm	Weight - kg
HRPVX-1EC	1675	1085	700	500	250	520	270	145
HRPVX-3EC	2050	1420	1000	850	350	880	380	265
HRPVX-5EC	2500	1750	1260	1100	450	1130	480	430

HRPVX-EC - Vertical Heat Recovery Units with EC Motors

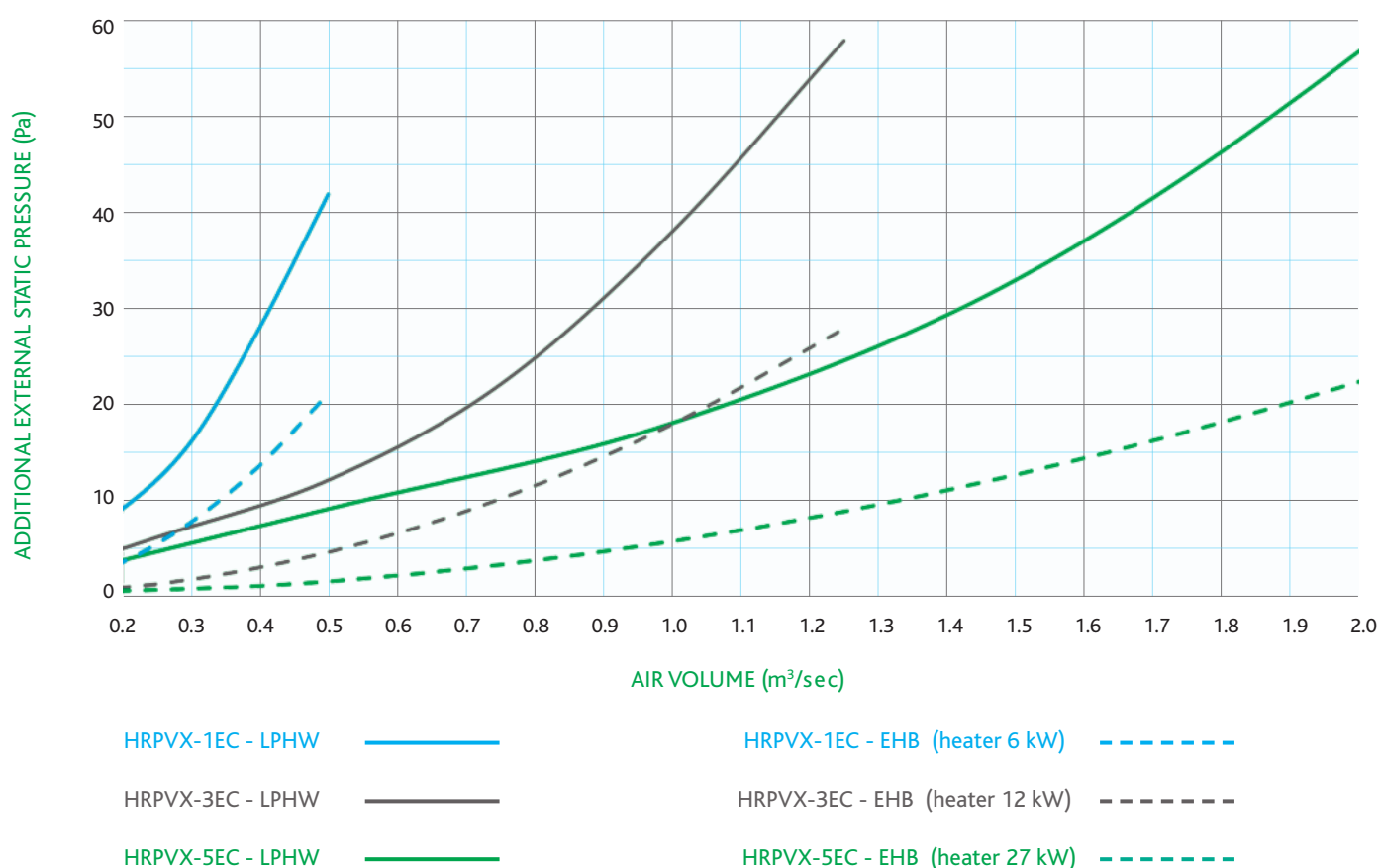
ANCILLARIES

Internally fitted ancillaries:

● LPHW coil or electric heater

- Heaters sizes to achieve $\Delta T=15^{\circ}\text{C}$ in supply air temperature
- Matched electric heater thyristor control or LPHW valve and actuator kits available

HRPVX-EC INTERNAL HEATER P.D



Wide range of duct-mounted ancillaries available on request

- Chilled water or DX cooling coils
- Sound attenuators
- Shut-off dampers

STP/STR bespoke Air Handling Units

- Bespoke or modular, supply, extract or combined
- Plantroom or weatherproof, stacked, side x side and vertical models up to 20m³/s air volume
- Adhere to specialist sector specification
- Versatile fitted control options
- Sectionalised units and flat pack available



HRPSL/HRRSL - Heat Recovery Units

- Standard designs up to 4m³/s air volume
- Plantroom or weatherproof, stacked or side x side models
- High efficiency Counterflow heat exchanger
- Versatile fitted control options



IME/IMW/EME/EMW - Compact Supply Air Handling Units

SPE/SRE/SPW/SRW - Supply Air Handling Units

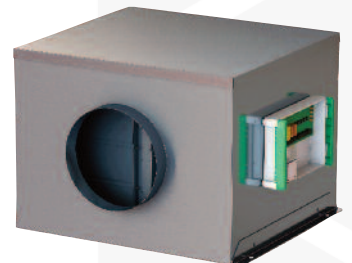
- Pre-designed units up to 1.2m³/s air volume
- Plantroom and weatherproof models
- Electric or water heating options
- Matched control panel options



QST/EMT - Acoustic Twin Cabinet Fans

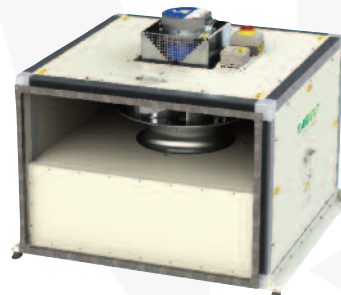
QSS/EM - Acoustic Cabinet Fans

- Pre-designed units up to 2.5m³/s air volume
- Plantroom and weatherproof models
- Matched control panels. Twin fans with auto-changeover facility



QBK - High Temperature Extract Fans

- Plantroom and weatherproof models
- Up to 8m³/s air volume
- Fire rated options available
- Matched control panel options including gas interlock



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