

Breeze

Unobtrusive wall ventilation units



*Breezes fresh air in
Breezes stale air out*



Creating a fresher environment

Breeze Wall Units

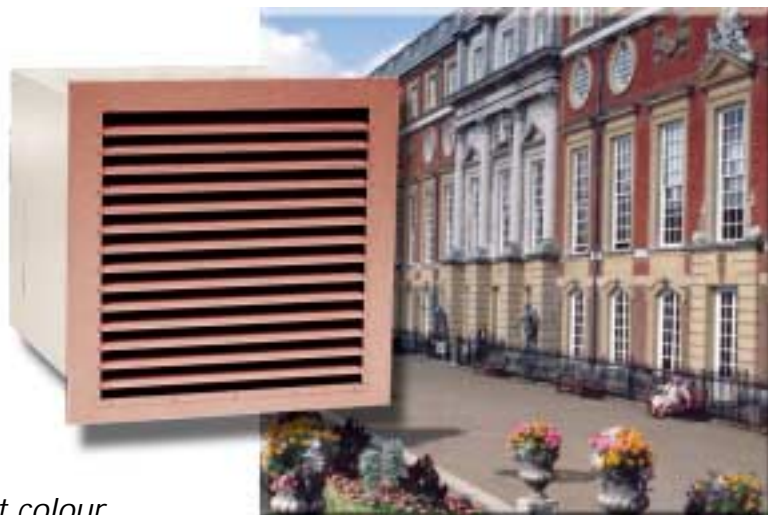


Impressive buildings demand sympathetic ventilation terminals. Breeze fan units are unobtrusive and meet architectural criteria, at the same time providing the duty you require.

VES have developed this product range with an impressive choice of options.

Standard features all units:

- *Supply or extract airflow.*
- *Centrifugal fans with high temperature cutout protection.*
- *Fitted acoustic lining.*
- *Easily removable louvre with non-visible fixings.*
- *Fan and filter removed via outside louvre.*
- *All fans speed controllable.*
- *Standard finish powder coat paint colour light grey to BS 00A05 on galvanised sheet steel, ensuring long corrosion free life.*



Design options:

- *Any BS or RAL colour available for external louvre.*
- *Fitted G4 filter to supply units.*
- *Grille, discharge head or duct connection inside building.*
- *Attenuated inlet or outlet.*
- *Fitted silencer.*
- *Secure louvre fastenings.*

Units can be fitted onto profiled wall panelling.

All units tested to BS 848 Part 1, and manufactured under ISO 9001 quality management system.

Part numbers:

BRE - Extract units

BRS - Supply units

To complete the model number add the fan size and components required from the following pages.

i.e. BRE 214/GL

BRS 315/SP

Additional technical details:

- *Fans are direct driven with hub mounted motors.*
- *All motors 230 volt, 1 phase 50 Hz.*
- *1 metre flying lead supplied fitted to all motors.*
- *Acoustic lining is flame retardant acoustic foam.*
- *Bird screen fitted to back of louvre.*
- *Units supplied with slip on angle to close to inside of wall.*
- *Resistance to airflow through clean filter is negligible.*
- *VES can advise specific fan power of units at any duty point.*

Breeze

Wall Units



Extract unit with grille and wall trim



Wall Louvre



Supply unit showing filter - louvre removed



Extract unit with louvre removed



Supply unit with flanged spigot



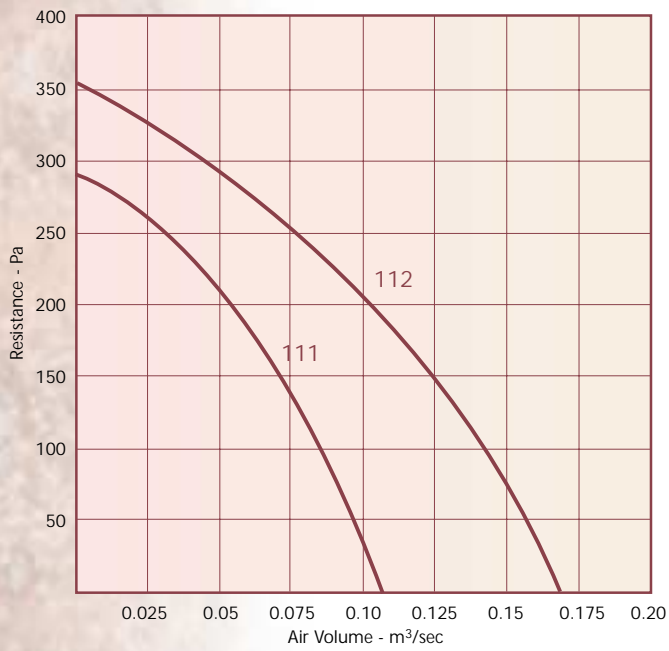
Supply unit with fitted silencer



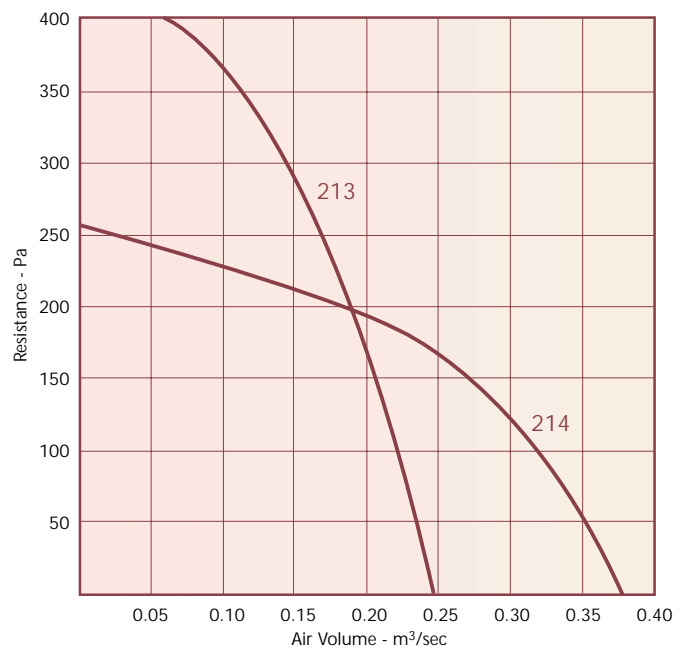
All colours available

Breeze Wall Units ~ Fan Curves

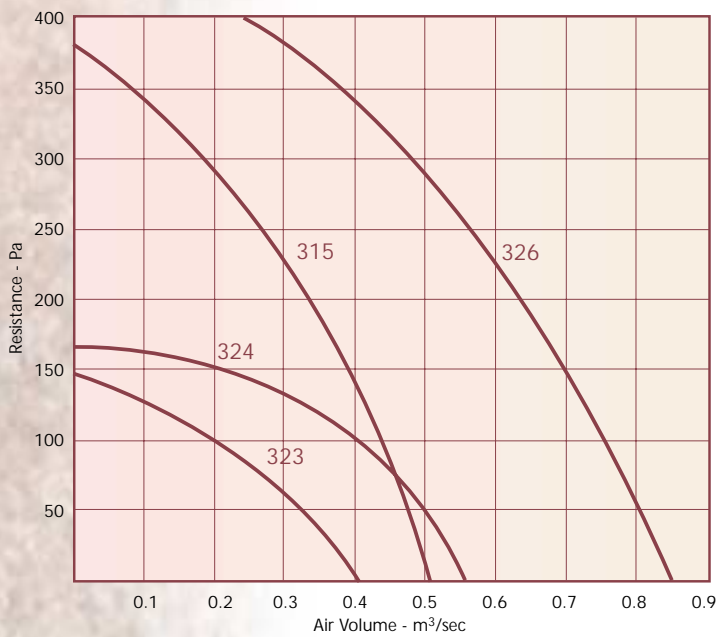
BRE / BRS 1



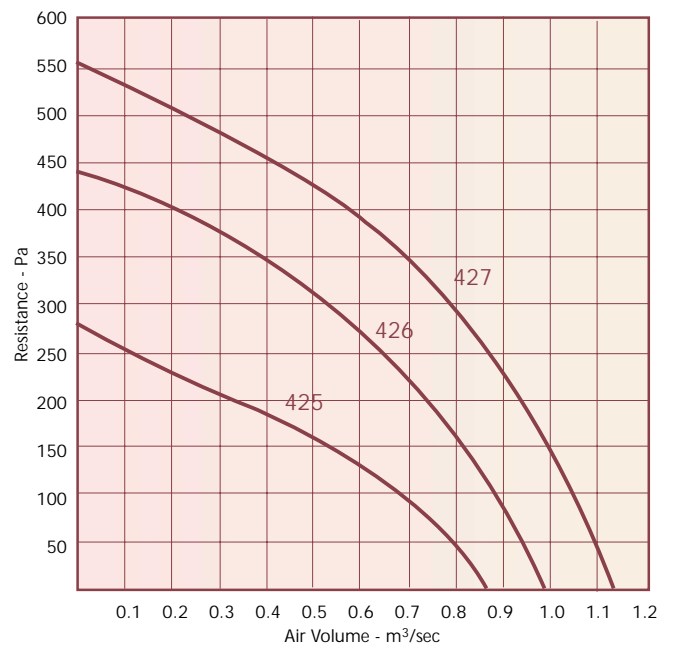
BRE / BRS 2



BRE / BRS 3

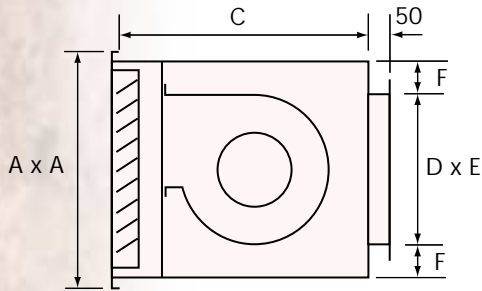


BRE / BRS 4

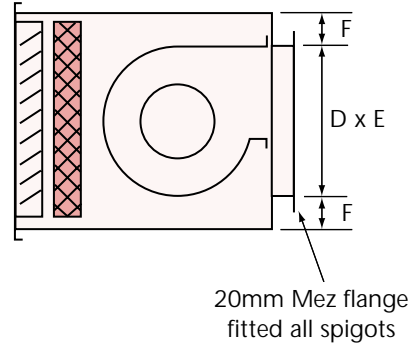


Breeze Wall Units ~ Dimensions

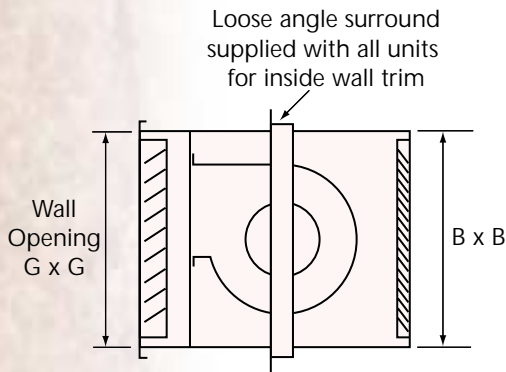
Extract unit -
with flanged inlet spigot
Model BRE/SP



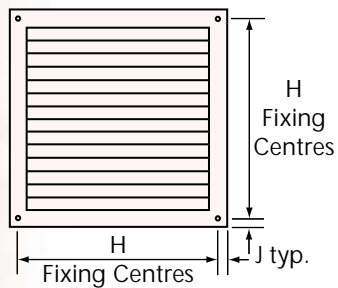
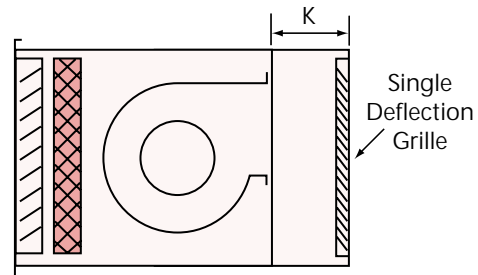
Supply unit -
with flanged outlet spigot
Model BRS/SP
with filter Model BRS/SP/F



Extract unit - with inlet grille
Model BRE/GL



Supply unit - with outlet grille box
Model BRS/GB
with filter Model BRS/GB/F



- Fixing centres are for unit case onto wall.
- Louvre has hidden fixings.
- BRE unit with open inlet suitable for BPS/BPL attenuating plenums or customer own connections.

Dimensions - mm

Model BRE/ BRS	A Louvre Overall	B Height x Width	C Length	D Spigot Height	E Spigot Width	F	G Wall Opening	H Fixing Centres	J	K Grille Box	Filter Ref	Unit Weight kgs
111	380	310	310	100	250	105	320	340	17.5	150	BRDF100	10
112	380	310	310	100	250	105	320	340	17.5	150	BRDF100	11
213	550	450	450	300	300	75	460	500	22.5	175	BRDF200	21
214	550	450	450	300	300	75	460	500	22.5	175	BRDF200	24
315	700	600	600	400	350	100	610	650	21.0	200	BRDF300	36
323	700	600	600	400	350	100	610	650	21.0	200	BRDF300	36
324	700	600	600	400	350	100	610	650	21.0	200	BRDF300	33
326	700	600	600	400	350	100	610	650	21.0	200	BRDF300	34
425	800	700	700	600	450	50	710	750	21.0	250	BRDF400	51
426	800	700	700	600	450	50	710	750	21.0	250	BRDF400	50
427	800	700	700	600	450	50	710	750	21.0	250	BRDF400	54

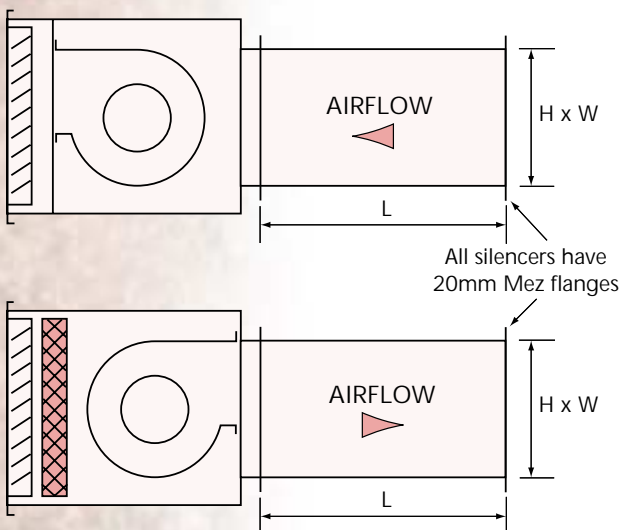
Breeze Wall Units ~ Noise Levels

Model BRE/BRS	Sound Power Level Spectrum db re10 ⁻¹² w PWL								SPL dBA*
	Centre Frequency - Hz								
	63	125	250	500	1k	2k	4k	8k	
111	40	49	55	55	65	61	59	56	47
112	48	54	60	63	71	66	63	57	55
213	50	59	62	60	64	63	62	57	52
214	44	52	60	60	63	60	58	55	49
315	58	72	71	70	75	75	73	71	60
323	51	65	65	60	64	65	62	58	52
324	56	68	68	69	73	74	70	64	57
326	64	75	77	73	79	80	76	70	65
425	51	65	65	66	70	70	67	59	56
426	64	75	77	73	79	80	76	70	65
427	60	70	72	71	77	77	73	66	63

* At 3 metres from louvre, free field

Silencers - Model BA

Fitted silencers for ducted systems, for both supply and extract units.



Breeze Unit	Silencer Model	Silencer overall size			Duct conn. size		Weight kgs
		H	W	L	H	W	
1	BA 100	250	250	850	100	250	14
2	BA 200	300	450	1000	300	300	19
3	BA 300	400	500	1100	400	350	28
4	BA 400	600	650	1300	600	450	50

All dimensions in mm.
Length L is over flanges.

Silencer Construction

- BA silencers designed to fit directly to Breeze units.
- They are manufactured from galvanised sheet steel with 20mm Mez flanges each end.
- The BPS and BPL attenuating inlet plenums have grille to inlet.
- Infill is resin bonded mineral wool slab, density 65kg/m³, faced with glass tissue. This is non-hygroscopic, rot proof and non-combustible.
- Powder coat paint finish in light grey BS00A05 is optional.

Silencer Performance

The standard silencers can be extended if necessary to meet specific design criteria. Consult VES sales office to discuss requirements.

Silencer Attenuation - Insertion Loss - dB

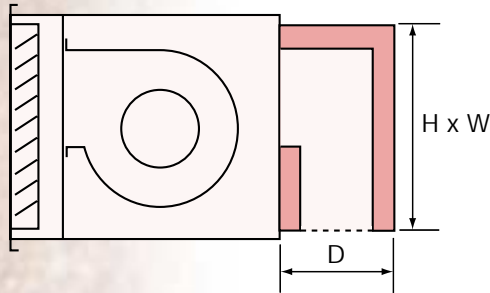
Model	Centre Frequency - Hz								Silencer Air P.D.	
	63	125	250	500	1k	2k	4k	8k	Pa	at m ³ /sec
BA 100	4	6	8	11	22	20	18	16	15	0.14
BA 200	3	4	6	12	20	20	18	14	25	0.30
BA 300	7	11	15	18	21	27	18	16	35	0.70
BA 400	3	7	12	17	23	22	16	15	25	1.10

Breeze Wall Units ~ Attenuation

Attenuating Inlet Plenums - For BRE extract units

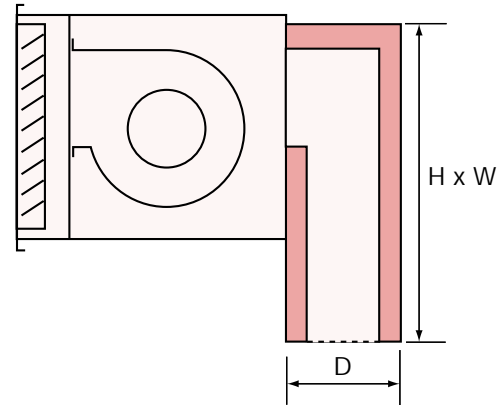
These can be turned through 90° to inlet horizontally or 180° to fit vertically upward. By directing the inlet away from the listener, increased attenuation will be achieved.

Short attenuator - Model BPS



- Grille fitted to inlet.
- The resistance through the attenuating plenums is negligible.

Long attenuator - Model BPL



BPS and BPL attenuators are powder coat paint finished in light grey to BS 00A05 to match BRE unit.

Breeze Unit	Dimensions - mm						Weight - kg	
	BPS			BPL			BPS	BPL
	H	W	D	H	W	D		
1	260	260	225	600	260	225	5	10
2	400	400	275	750	400	275	8	14
3	550	550	325	950	550	325	12	19
4	650	650	500	1000	650	500	24	34

Silencer Attenuation - Insertion Loss - dB

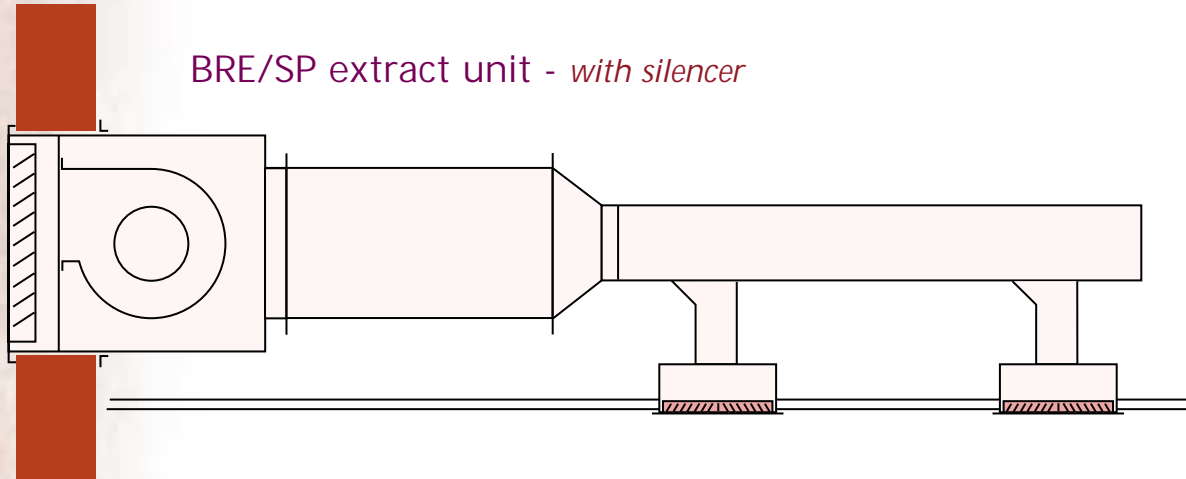
Model	Centre Frequency - Hz							
	63	125	250	500	1k	2k	4k	8k
BPS 100	3	5	6	9	18	15	15	13
BPL 100	3	6	8	12	21	19	18	15
BPS 200	3	5	6	10	15	15	16	16
BPL 200	3	6	8	12	18	18	18	18
BPS 300	3	6	10	12	17	19	18	16
BPL 300	4	8	15	15	19	21	20	18
BPS 400	3	5	10	12	18	18	19	15
BPL 400	4	8	12	15	18	18	20	17

Electrical Details

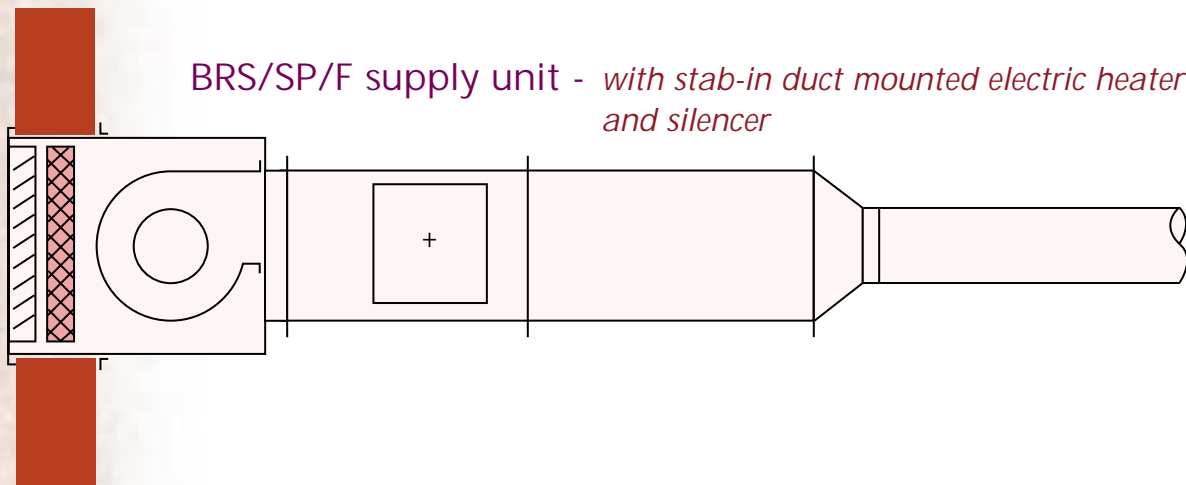
Model BRE/BRS	VES Fan Ref	Motor Input Watts	FLC amps max.	Fan Speed RPM	Speed Controller	
					Electronic	Transformer
111	AL 121	117	0.47	1590	-	T1
112	AL 221	230	0.96	1365	-	T1
213	AL 321	330	1.33	1945	V20	T4
214	AL 441	400	1.75	1280	V20	T4
315	AL 541	698	3.33	1380	V65	T4
323	GZ 361	339	1.66	860	-	T4
324	GZ 461	508	2.40	860	V65	T4
326	GZ 641	1115	4.90	1380	V65	T8
425	GZ 561	775	3.70	860	V65	T4
426	GZ 641	1260	5.55	1380	V65	T8
427	GZ 741	1780	7.70	1380	-	T8

Breeze Wall Units ~ Design Possibilities

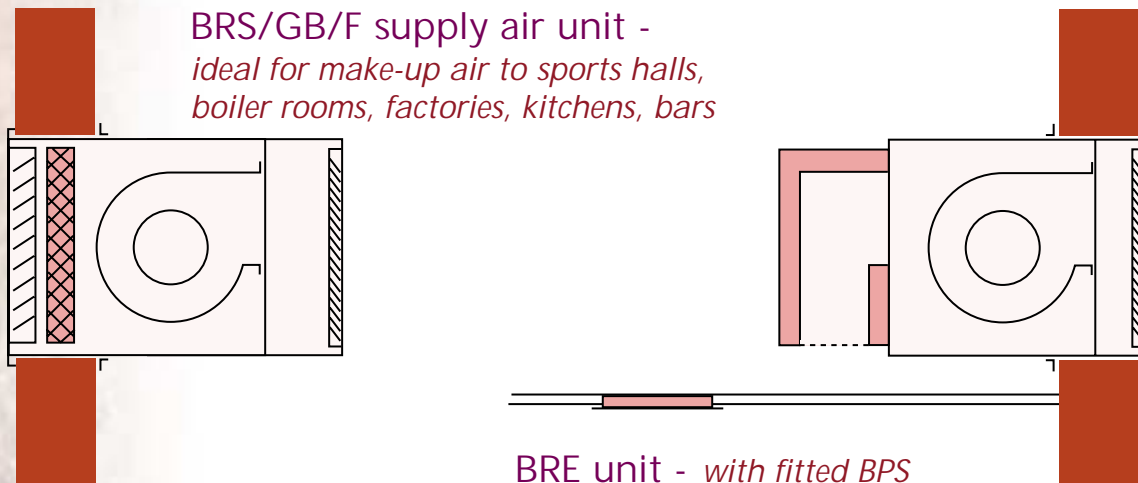
BRE/SP extract unit - with silencer



BRS/SP/F supply unit - with stab-in duct mounted electric heater and silencer



BRS/GB/F supply air unit - ideal for make-up air to sports halls, boiler rooms, factories, kitchens, bars



BRE unit - with fitted BPS silencer for unducted attenuated extract system



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