

## Breeze Fitting Guide

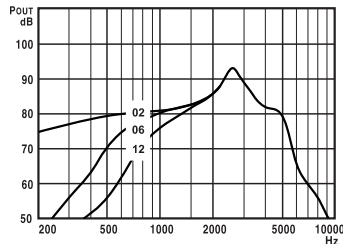
This fitting guide has been prepared to help you select and fit the appropriate Breeze trimmer digital products for your clients.

### CHOOSING PROCESSING STRATEGY

- Breeze offers a choice of 3 processing strategies: WDRC, AGCo and Linear
- Consider your client's hearing aid history, hearing loss and lifestyle needs in making this choice
  - For new wearers with mild to moderately severe hearing losses, choose WDRC
  - For steeply sloping hearing losses, choose WDRC
  - For conductive losses and /or previous linear wearers, choose AGCo or Linear
  - For severe hearing losses, choose AGCo

### FITTING BREEZE CUSTOM

- Breeze custom products offer numerous matrix choices within each circuit type and shell style
- The 3 numbers in the matrix represent the peak output, peak gain and frequency response slope
- Example: 106/45/02, 06, 12  
 peak output = 106,  
 peak gain = 45, and  
 3 slopes are available



### TO SELECT A MATRIX

- Choose appropriate gain for degree of hearing loss
- Choose appropriate slope for configuration of hearing loss
  - flat or reverse losses - choose 02 slope
  - gently sloping losses - choose 06 slope
  - steeply sloping losses - choose 12 slope
- More details on choosing a matrix as well as choosing appropriate trimmers are provided inside this fitting guide

### FITTING BREEZE BTE

- No matrix selection is required – simply choose the most appropriate processing for your client

### CUSTOM WDRC MATRIX SELECTIONS

Full-shell	Half-shell/Canal	CIC
116/55/02,06,12	110/45/02,06,12	105/40/02,06,12
111/50/02,06,12	105/40/02,06,12	100/35/02,06,12
106/45/02,06,12	100/35/02,06,12	95/30/02,06,12
101/40/02,06,12		90/25/02,06,12
96/35/02,06,12		85/20/02,06,12

dB SPL 2cc

### CUSTOM LINEAR MATRIX SELECTIONS

Full-shell power	Full-shell	Half-shell/Canal	CIC
123/60/02,06,12	117/55/02,06,12	112/45/02, 06, 12	112/40/02, 06, 12
123/55/02,06,12	117/50/02,06,12	112/40/02, 06, 12	112/35/02, 06, 12
123/50/02,06,12	117/45/02,06,12	112/35/02, 06, 12	112/30/02, 06, 12
	117/40/02,06,12		112/25/02, 06, 12
	117/35/02,06,12		112/20/02, 06, 12

dB SPL 2cc

### CUSTOM AGCO MATRIX SELECTIONS

Full-shell power	Full-shell	Half-shell/Canal	CIC
123/60/02,06,12	117/55/02,06,12	112/45/02, 06, 12	112/40/02, 06, 12
123/55/02,06,12	117/50/02,06,12	112/40/02, 06, 12	112/35/02, 06, 12
123/50/02,06,12	117/45/02,06,12	112/35/02, 06, 12	112/30/02, 06, 12
	117/40/02,06,12		112/25/02, 06, 12
	117/35/02,06,12		112/20/02, 06, 12

dB SPL 2cc

### BREEZE BTE FITTING RANGE

	250	500	1000	2000	4000	8000Hz
-10						
0						
10						
20						
30						
40						
50						
60						
70						
80						
90						
100						
110						
120						

### BTE GAIN OUTPUT SELECTIONS

WDRC +3	65/130
AGCO +3	65/132
WDRC	65/130
AGCO	65/130

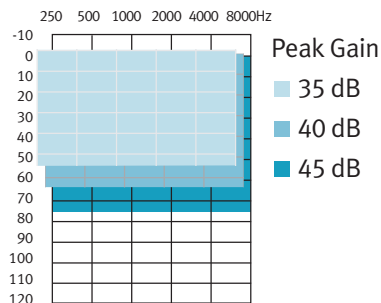
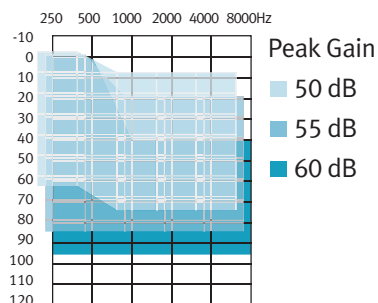
dB SPL 2cc

# Breeze Fitting Guide

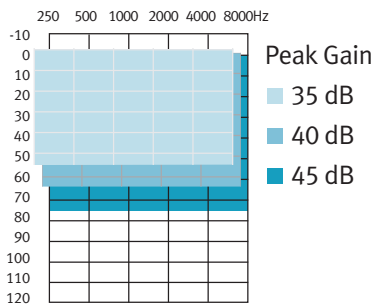
## CHOOSING A MATRIX - BREEZE CUSTOM (WDRC, AGCo and Linear)

Use the fitting ranges as a guide to select an appropriate matrix for your client's hearing loss.

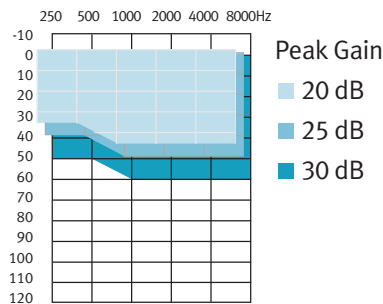
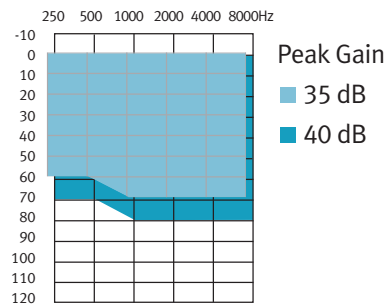
### BREEZE ITE FITTING RANGES



### BREEZE ITC FITTING RANGES



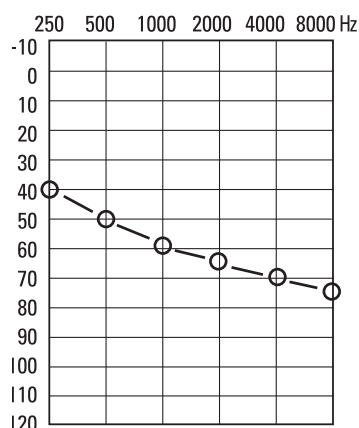
### BREEZE CIC FITTING RANGES



If you prefer, you can calculate an appropriate matrix using the following simple method.

### HOW TO SELECT GAIN

1. Take the 2 highest (worst) thresholds measured for 500, 1000 and 2000 Hz
2. Calculate the average of these 2 thresholds
3. Divide by 2 (1/2 gain rule)
4. Add 10 dB (reserve gain)
5. Find the closest matrix. Always choose the higher matrix when exact matrix not available.



### EXAMPLE:

1. Worst thresholds: 60 dB (1000 Hz) and 65 dB (2000 Hz)
2. Calculate average:  $60 + 65 \div 2 = 62.5$
3.  $62.5 \div 2 = 31$
4.  $31 + 10 = 41$  dB
5. Select 45 dB matrix

### HOW TO SELECT SLOPE

1. Subtract threshold at 500 Hz from threshold at 2000 Hz
2. Divide by 2
3. Choose the closest slope. Round up or down to the nearest slope if required.

### EXAMPLE:

1.  $65 \text{ dB} - 50 \text{ dB} = 15 \text{ dB}$
2.  $15 \div 2 = 7.5$
3. Choose 06 slope

### OTHER CONSIDERATIONS

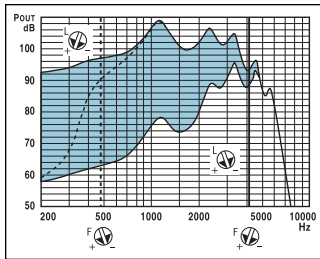
- Choose a higher gain matrix for previous wearers compared to new wearers
- Choose a lower gain matrix for binaural fittings compared to monaural fittings
- Choose a lower (flatter) slope if low cut/low channel gain control and aggressive venting to be used
- When a choice of outputs is available (eg. 123/55 or 117/55), select output below client's UCL's if possible
- Select smaller shell style/lower gain matrix in cases where client can be satisfied with less reserve gain

## SELECTING TRIMMERS

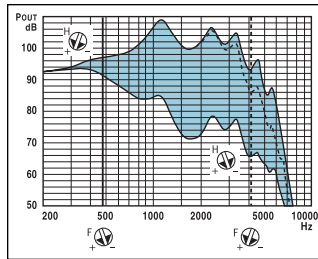
Use these graphs of trimmer action for each processing type to help you select the most appropriate trimmers for your client.

### BREEZE WDRC

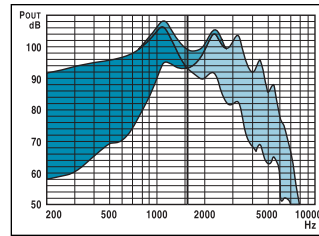
**Low channel gain (L) & crossover frequency (F)**



**High channel gain (H) & crossover frequency (F)**

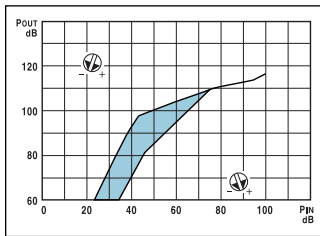


**Low & high channel gain (no crossover frequency control)**

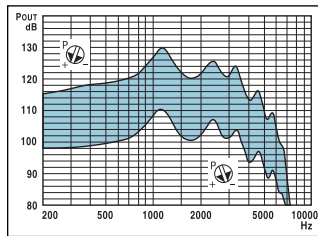


When no crossover frequency control is ordered, F will be set to a default position of 1600 Hz (as shown).

**Threshold kneepoint (TK)**

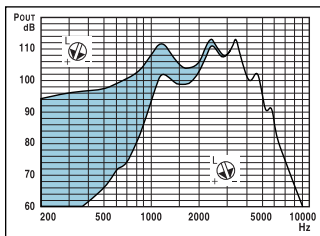


**Maximum power output (P)**

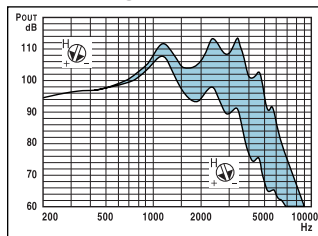


### BREEZE AGCo

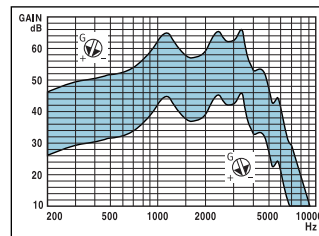
**Low-cut (L)**



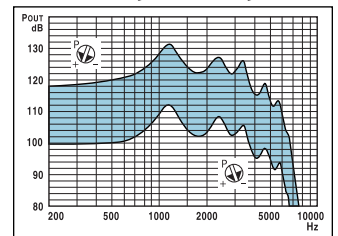
**High-cut (H)**



**Gain (G)**

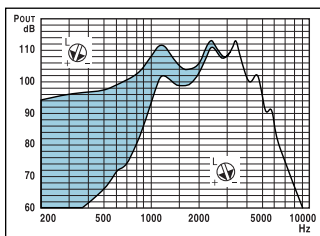


**Maximum power output (P)**

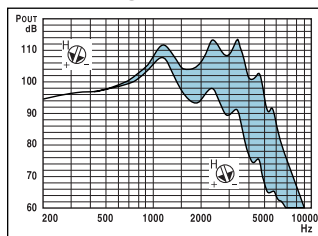


### BREEZE LINEAR

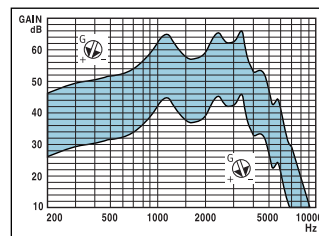
**Low-cut (L)**



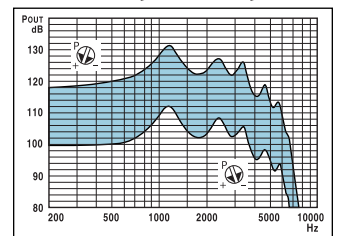
**High-cut (H)**



**Gain (G)**



**Maximum power output (P)**



## ADDITIONAL SUGGESTIONS FOR TRIMMER SELECTION

- For steeply sloping losses, choose F (when available), L and/or H
- If feedback is a concern, choose H and/or TK (when available)
- For narrow dynamic ranges, select P as one of the trimmers

# Breeze Fitting Guide

## FINE TUNING GUIDE

	WDRC	AGCo/Linear
<b>Speech</b>		
Average speech too loud	TK  OR L  OR G	L  OR G
Average speech too soft	TK  OR L  OR G	L  OR G
Loud speech too loud	P	P
Client's voice too loud	L	L
Speech intelligibility poor	H	H
Speech intelligibility poor in background noise	H  OR L  OR F	H  OR L
<b>Noise</b>		
Background noise too loud	L Switch to directional mode (ITE only)	L Switch to directional mode (ITE only)
Low level noise too loud	TK  OR L  OR F	L
Loud noises too loud	P	P
<b>Sound Quality</b>		
Own voice echoes (occlusion)	L  OR F	L
All sounds too loud	G Decrease volume	G Decrease volume
All sounds too sharp	H  OR F	H
Constant feedback	H  OR F	H
Feedback in quiet	TK	

- TK Threshold kneepoint
- L Low-cut/low channel gain
- H High-cut/high channel gain
- G Gain
- P Maximum power output
- F Crossover frequency

