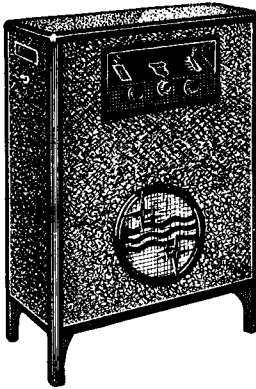
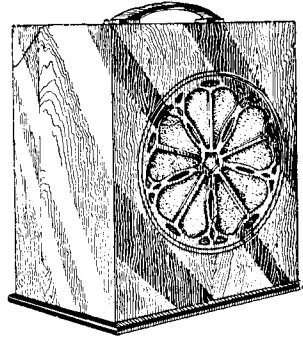


AANHANGSEL

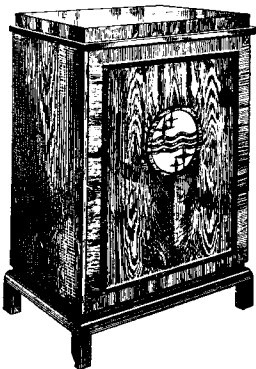
J. A. GERRITSEN
Radio - Electriciteit
Loosduinschekade 127
DEN HAAG



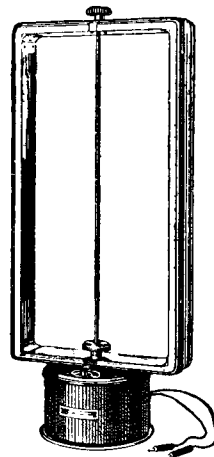
PHILIPS
COMPLETE ONTVANGER
(Type 2601)



PHILIPS
TRANSPORTABLE ONTVANGER
(Type 2540)



PHILIPS
RADIO-GRAMFOON COMBINATIE
(Type 2811)



PHILIPS
RAAMANTENNE
(Type 4104)

Gegevens van Philips „Miniwatt” ontvanglampen voor gelijkstroomvoeding

		1-VOLT SERIE					2-VOLT SERIE						
AANDUIDING		A 135	A 125	A 109	A 141	B 105	A 235	A 225	A 209	A 241	B 205	B 203	
SOORT ¹⁾		Triode	Triode	Triode	R- Tetrode	Triode	Triode	Triode	Triode	R- Tetrode	Triode	Triode	
Gloeispanning	v_f	1,0 ÷ 1,3					2,0					V	
Gloeistroom	i_f	60			80	150	60	80		150	190		mA
Anodespanning	v_a	150 ÷ 200	50 ÷ 150	20 ÷ 150	2 ÷ 20	50 ÷ 150	150 ÷ 200	50 ÷ 150	20 ÷ 150	2 ÷ 20	50 ÷ 150	50 ÷ 150	V
Hulproosterspanning	v_g	—	—	—	2—20	—	—	—	—	2 ÷ 20	—	—	V
Bedrijfs-anodestroom ²⁾	i_a	1,90	0,4	2	1,5	8	1,9	0,8	4	1,2	7	12	mA
Neg. roosterspanning ³⁾	v_g	—	3	9	3	18	—	3	9	3	18	30	V
Anode-rooster-cap.	C_{ag}	0,3	1,2	2	2	—	0,3	1,5	2	2	—	—	cm
Versterkingsfactor	g	35	25	9	4,5	5	35	25	9	4,5	5	3	
Steilheid	S	0,3	0,45	0,45	1,0	1,0	0,4	1,0	1,0	1,0	1,2	1,5	$\frac{mA}{V}$
Inwendige weerstand	R_i	116 500	55 500	20 000	4 500	5 000	78 500	25 000	9 000	4 500	4 200	2 000	Ω
Toepassing in toestel ¹⁾		1	1,3	1,2	1,2	2,4	1	1,3	1,2	1,2	2,4	2,4	
Aan te bevelen gloeistroombron:		elementen ²⁾					2-volts accu						
4-VOLT SERIE													
AANDUIDING		A 442	A 435	A 425	A 415 ⁴⁾	A 410	A 409	A 441	B 406	B 403			
SOORT ¹⁾		S- Tetrode	Triode	Triode	Triode	Triode	Triode	R- Tetrode	Triode	Triode			
Gloeispanning	v_f	4,0				3,4 ÷ 4,0		4,0					V
Gloeistroom	i_f	60			80	60		80	100	150			mA
Anodespanning	v_a	50 ÷ 150		150 ÷ 200	50 ÷ 150	20 ÷ 150		2 ÷ 20	50 ÷ 150				V
Hulproosterspanning	v_{g1}	25 ÷ 75	—	—	—	—	—	2 ÷ 20	—	—			V
Bedrijfs-anodestroom ²⁾	i_a	2,8	2,1	2,7	4	5,5	3,5	1,8	7,5	15			mA
Neg. roosterspanning ³⁾	v_g	—	—	3	4,5	—	9	3	15	30			V
Anode-rooster-cap.	C_{ag}	0,01	0,3	2,5	2,5	1,2	2,5	2	—	—			cm
Versterkingsfactor	g	150	35	25	15	10	9	4,5	6	3			—
Steilheid	S	1,0	0,5	1,2	2,0	0,5	1,2	0,7	1,4	1,5			$\frac{mA}{V}$
Inwendige weerstand	R_i	150 000	70 000	20 800	7 500	20 000	7 500	6 400	4 300	2 000			Ω
Toepassing in toestel ¹⁾		1	1	1,3	1,2	1	1,2	1,2	4	4			
Aan te bevelen gloeistroombron:		4-volts accubatterij											
¹⁾ TOEPASSING IN HET TOESTEL 1 = hoogfrequentieversterker. 2 = detector, of l.f. versterker m transformator koppeling. 3 = detector, of l.f. versterker met weerstandskoppeling. 4 = eindlamp.						²⁾ R-Tetrode = tetrode met Ruimteladingsrooster. S-Tetrode = tetrode met Schermrooster. ³⁾ Voor elke A-lamp ten minste één, voor elke B-lamp ten minste twee elementen te rekenen, welke laatste parallel geschakeld worden. ⁴⁾ De opgegeven negatieve roosterspanningen gelden als gemiddelde waarde bij de maximale anodespanning. ⁵⁾ De bedrijfs-anodestroommen zijn de bij deze negatieve roosterspanningen optredende anodestroommen. ⁶⁾ Hiermede komen nagenoeg overeen A 414 en A 416.							

Gegevens van Philips „Miniwatt” ontvanglampen voor wisselstroomvoeding

		4-VOLT SERIE								
AANDUIDING		E 442	E 435	E 424	E 415	E 438	C 142	F 215	D 143	
SOORT ²⁾		S-Tetrode	Triode	Triode	Triode	Triode	S-Tetrode	Triode	S-Tetrode	
Verhitting		Indirect	Indirect	Indirect	Indirect	Indirect	Direct	Indirect	Direct	
Gloeispanning	v_f	4,0	4,0	4,0	4,0	4,0	1,0	2,5	1,0	V
Gloeistroom	i_f	900	900	900	900	800	250	1500	600	mA
Anodespanning	v_a	150 ÷ 200	100 ÷ 200	50 ÷ 150	50 ÷ 150	100 ÷ 200	50 ÷ 150	50 ÷ 150	50 ÷ 150	V
Hulp-roosterspanning	$v_{g'}$	60 ÷ 100	—	—	—	—	25 ÷ 75	—	50 ÷ 150	V
Bedrijfs-anodestroom ⁴⁾	i_a	1,5	3,0	3,0	6,0	2,5	1,7	6,5	12	mA
Neg. roosterspanning ³⁾	v_g	1,25	1,5	4,5	6,0	3,0	1,5	6,0	15	V
Auode-roostercap.	C_{ag}	0,001	0,3	2,5	2,5	2,5	0,01	2,5	—	cm
Versterkingsfactor	g	125	35	24	15	38	150	15	60	
Steilheid	S	1,2	1,0	3,0	2,0	1,5	0,8	2,0	1,2	$\frac{mA}{V}$
Inwendige weerstand	R_i	150 000	35 000	8 000	7 500	25 300	188 000	7 500	50 000	Ω
Toepassing in toestel ¹⁾		1	1	1,2	1,2	1,3	1	2	4	
Aan te bevelen gloeistroombron		Philips gloeistroomtransformator (type 4009)					Philips gloeistroomtransformator (type 4008)			

Voor gelijk- of wisselstroomvoeding (eindlampen)

		4-VOLT SERIE										
AANDUIDING		B 405	C 405	D 404	E 406	E 408N	F 410	B 443	C 443	E 443N	F 443	
SOORT ²⁾		Triode	Triode	Triode	Triode	Triode	Triode	S-Tetrode	S-Tetrode	S-Tetrode	S-Tetrode	
Verhitting		Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	
Gloeispanning	v_f	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	V
Gloeistroom	i_f	150	300	650	1000	1000	2000	150	250	1000	2000	mA
Anodespanning	v_a	50 ÷ 150	100 ÷ 200	150 ÷ 200	150 ÷ 250	300 ÷ 400	400 ÷ 550	50 ÷ 150	150 ÷ 300	300 ÷ 400	400 ÷ 550	V
Hulp-roostersp.	$v_{g'}$	—	—	—	—	—	—	50 ÷ 150	150 ÷ 200	150 ÷ 200	150 ÷ 200	V
Bedrijfs-an.str. ⁴⁾	i_a	10	12,5	30	48	30	45	12	22	30	45	mA
Neg. roostersp. ³⁾	v_g	18	24	30	24	34	36	15	20	37	39	V
Anode-verbog.	N	1,5	2,5	6	12	12	25	1,8	6,6	12	25	W
Versterk. factor	g	5	5	3,5	6	8	10	60	60	60	60	
Steilheid	S	2,0	2,0	3,5	6,0	5,0	8,0	1,2	1,5	3,0	4,0	$\frac{mA}{V}$
Inw. weerstand	R_i	2500	2500	1000	1000	1600	1250	50 000	40 000	20 000	15 000	Ω
Toepass. in toestel ¹⁾		4	4	4	4	4	4	4	4	4	4	
Aan te bevelen gloeistroombron:		Philips gloeistroomtransformator (type 4009)										

¹⁾ TOEPASSING IN HET TOESTEL

1 = hoogfrequentieversterker.

2 = detector of I.f.versterker m. transform.koppeling.

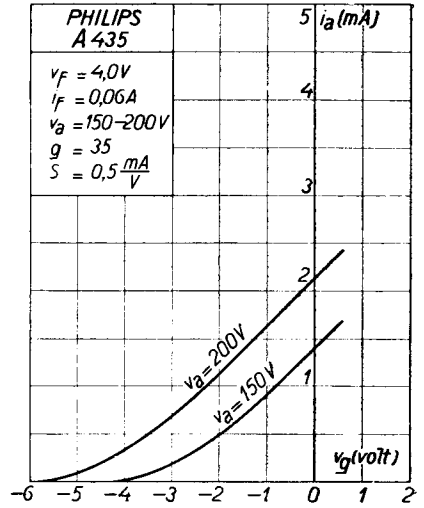
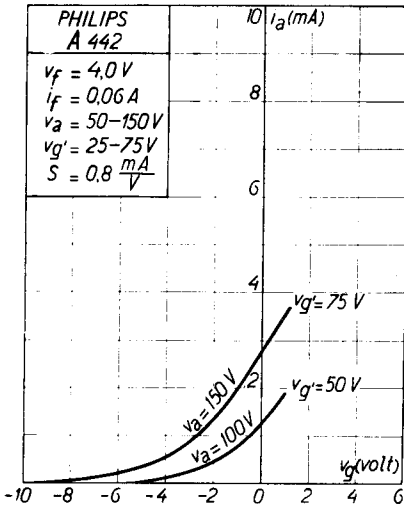
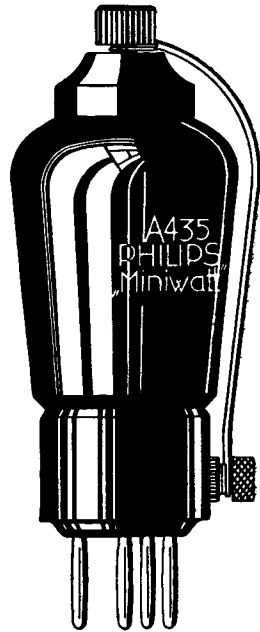
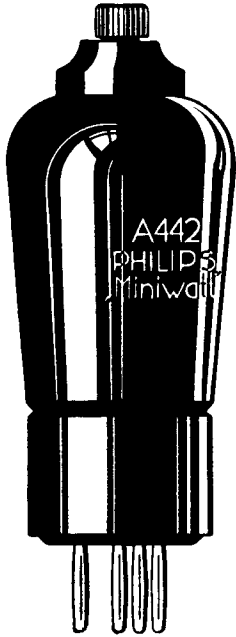
3 = detector of I.f.versterker met weerstandskoppeling.

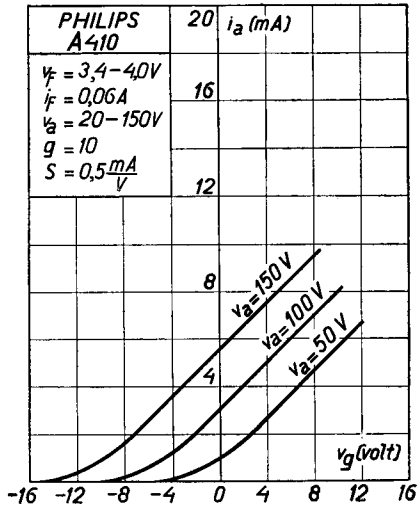
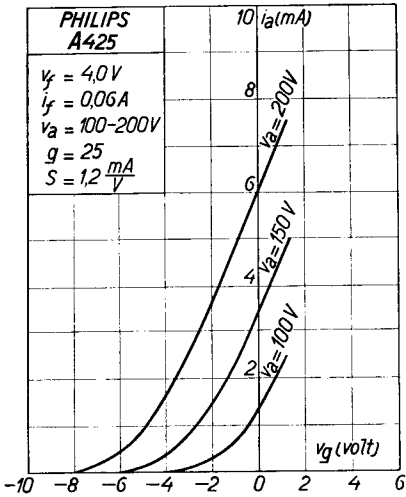
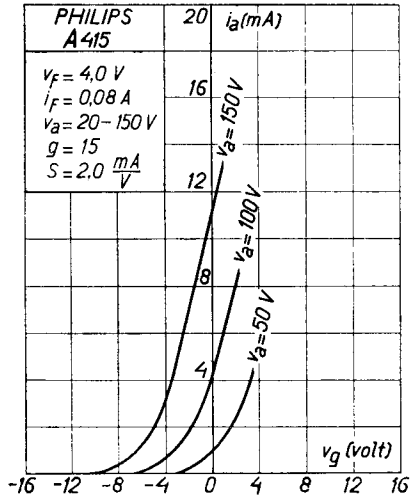
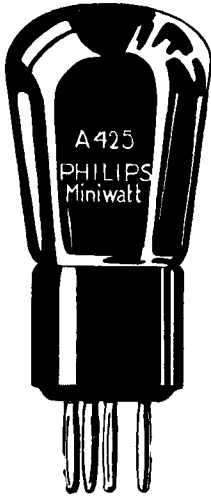
4 = eindlamp.

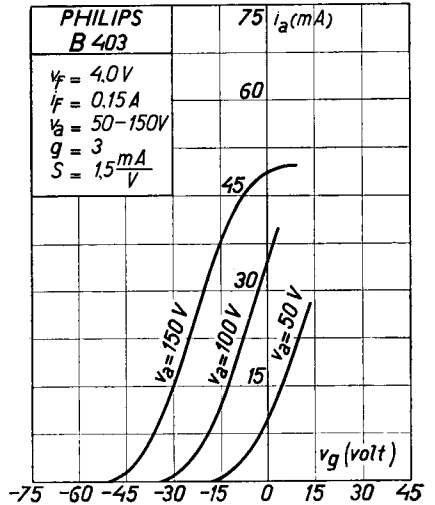
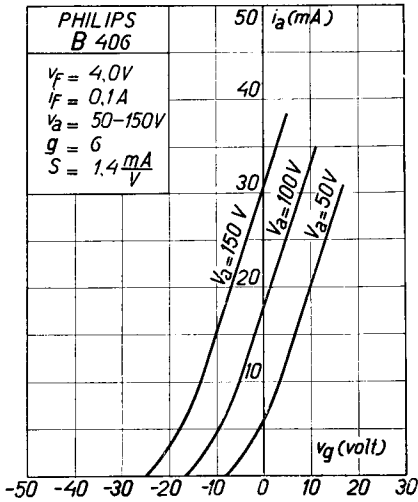
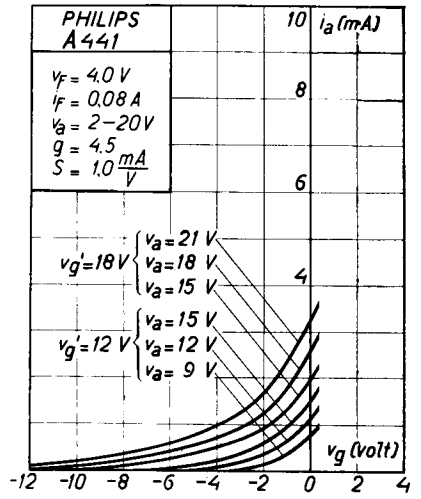
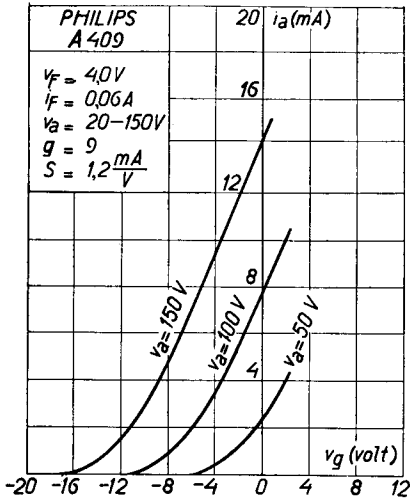
²⁾ S-Tetrode = tetrode met Schermrooster.

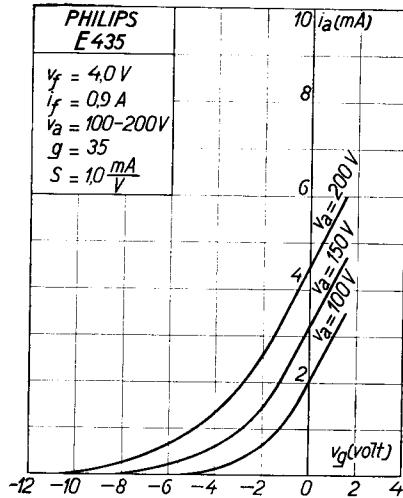
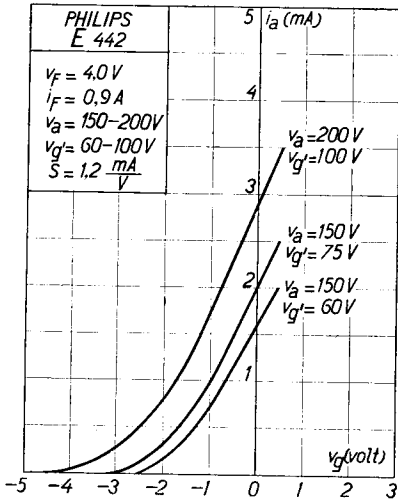
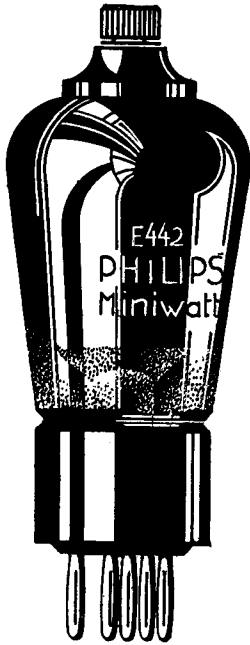
³⁾ De opgegeven negatieve roosterspanningen gelden als gemiddelde waarde bij maximale anodespanning.

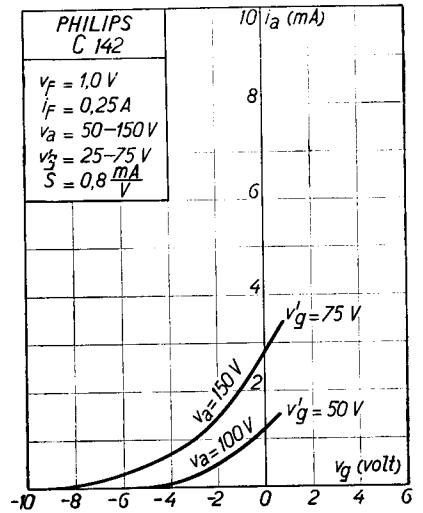
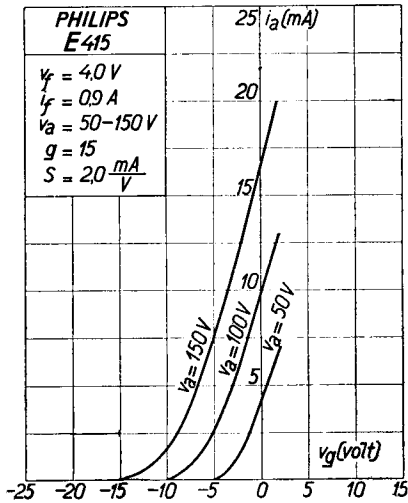
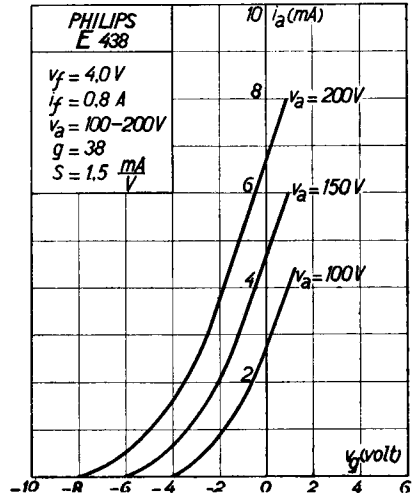
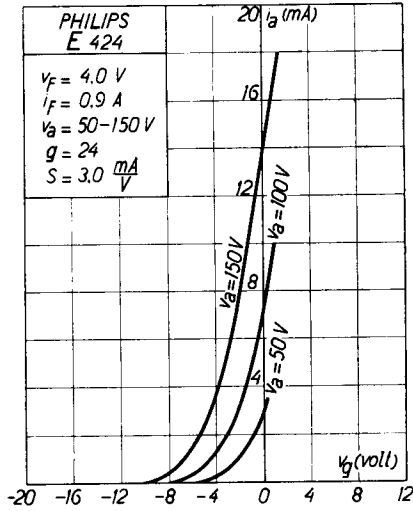
⁴⁾ De bedrijfs-anodestroommen zijn de bij deze negatieve roosterspanningen optredende anodestroommen.

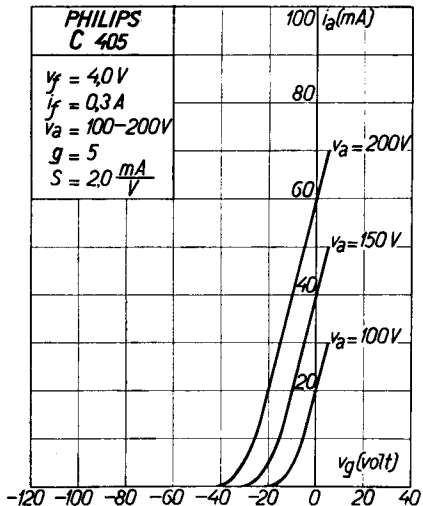
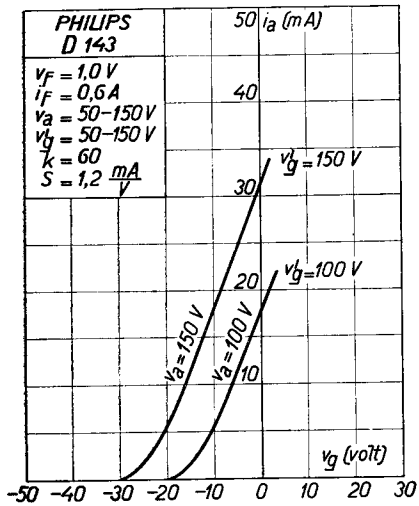
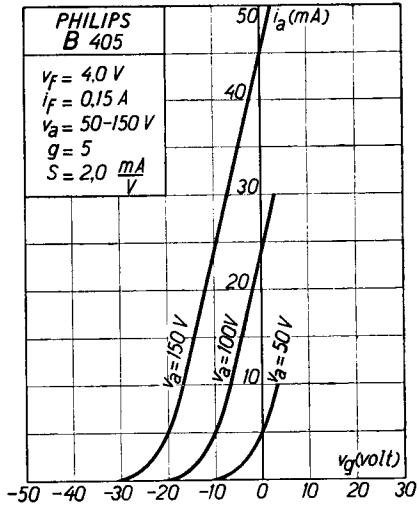
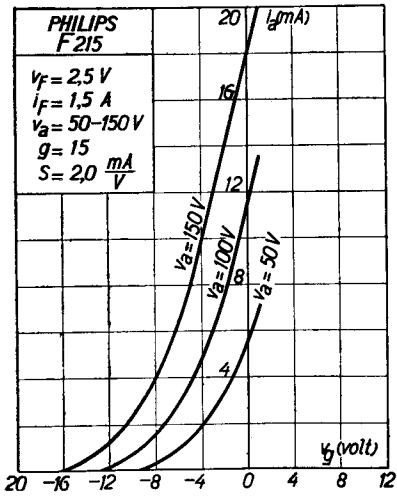


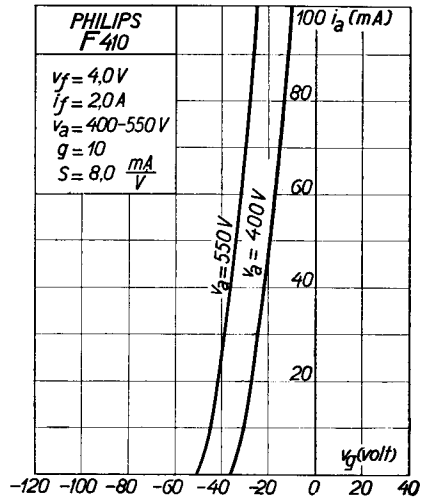
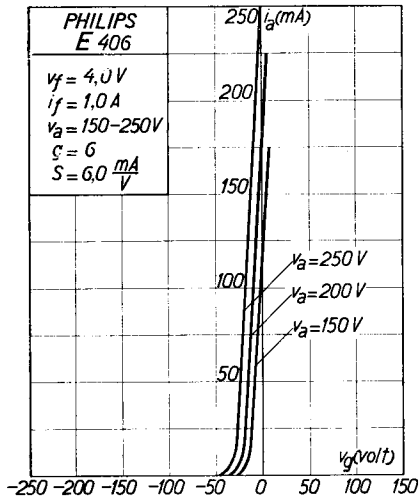
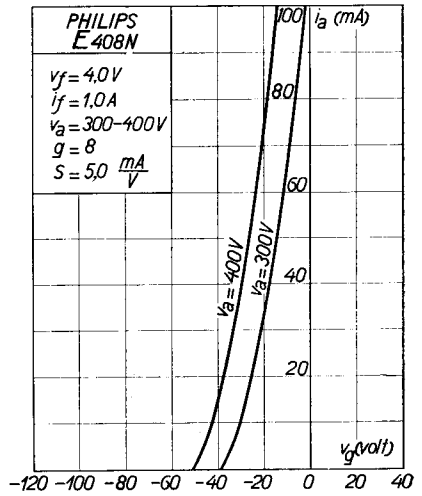
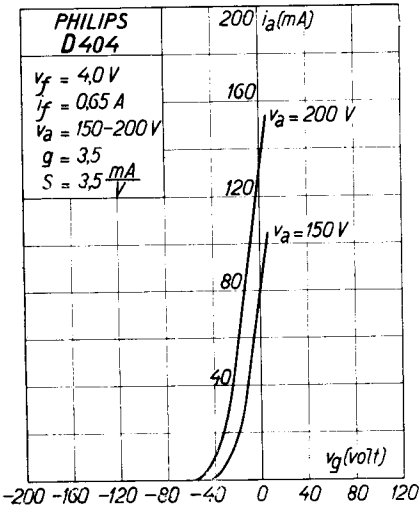


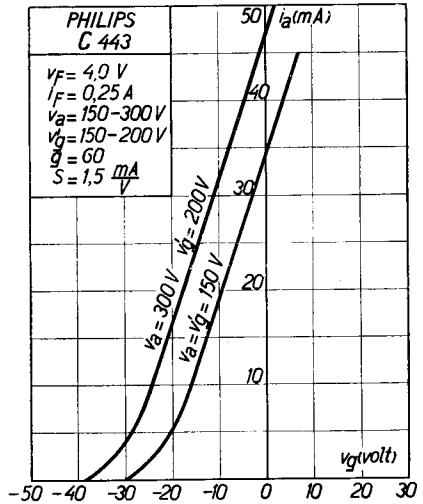
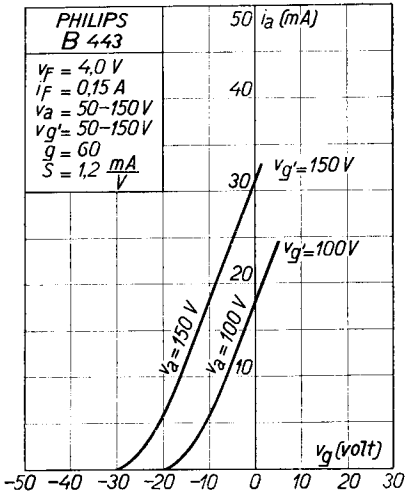
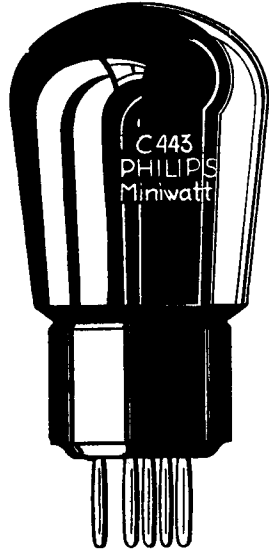
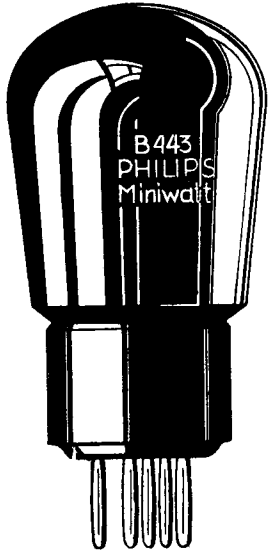


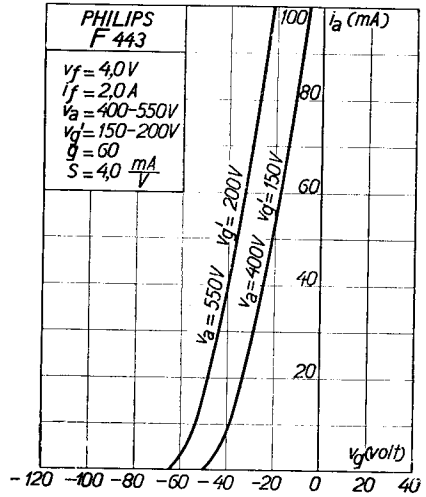
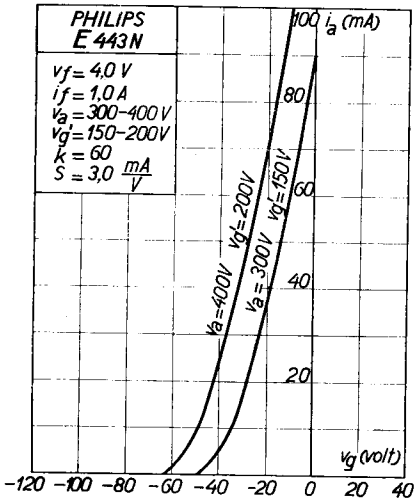
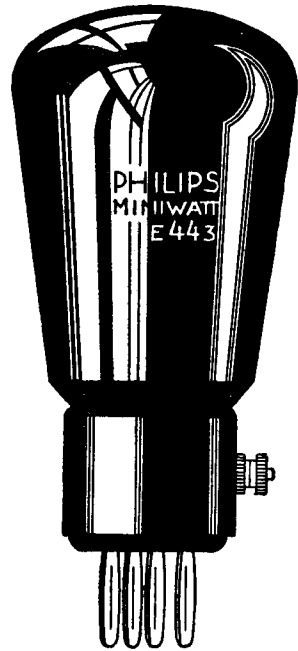
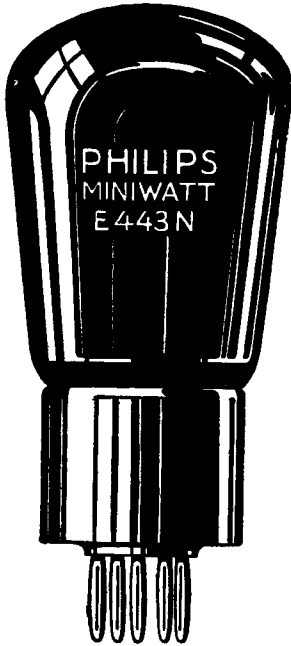


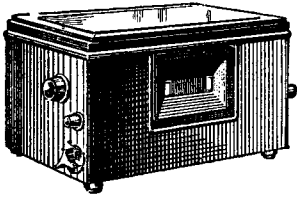




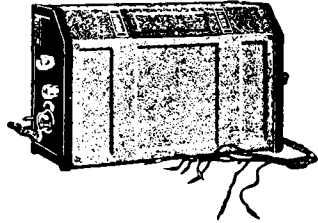




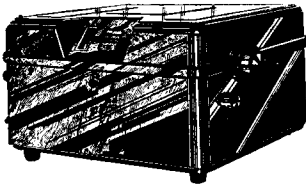




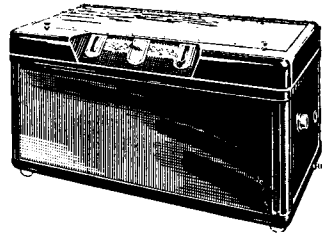
PHILIPS ONTVANGTOESTEL
(Type 2534)



PHILIPS ULTRAKORTEGOLFONTVANGER
(Type 2802)



PHILIPS ONTVANGTOESTEL
(Type 2531)



PHILIPS ONTVANGTOESTEL
(Type 2511)

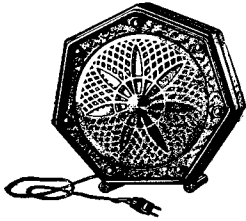


(Type 2022)

PHILIPS LUIDSPREKERS
(electromagnetisch)

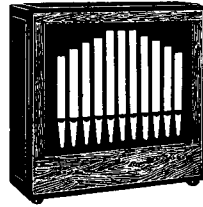


(Type 2007)



(Type 2019)

PHILIPS LUIDSPREKERS
(electromagnetisch)

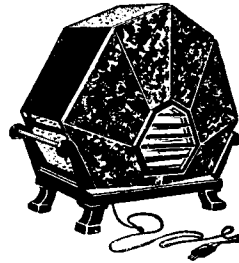


(Type 2024)

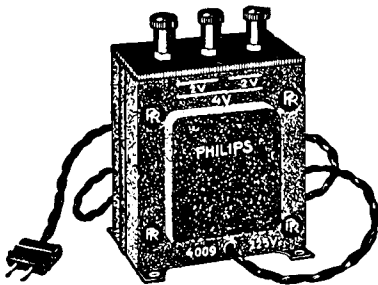


(Type 2108)

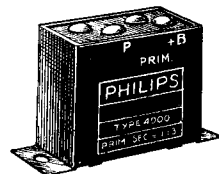
PHILIPS LUIDSPREKERS
(electrodynamisch)



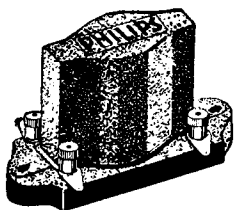
(Type 2110)



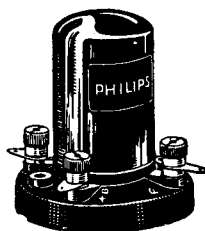
PHILIPS
GLOEI-STROOMTRANSFORMATOR
(Type 4009)



PHILIPS
LAAGFR. TRANSFORMATOR
(Type 4000)



PHILIPS
LAAGFR.-TRANSFORMATOR
(Type 4003)



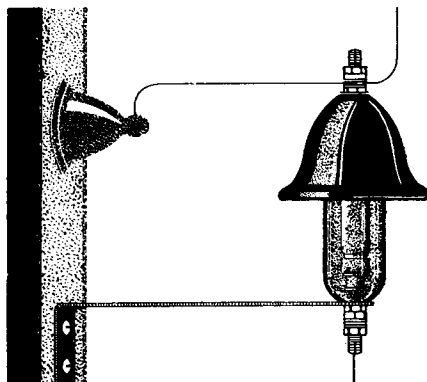
PHILIPS
WEERSTANDKOPPELINGSELEMENT
(Type 4001)



PHILIPS
HOOGOHMIGE WEERSTAND



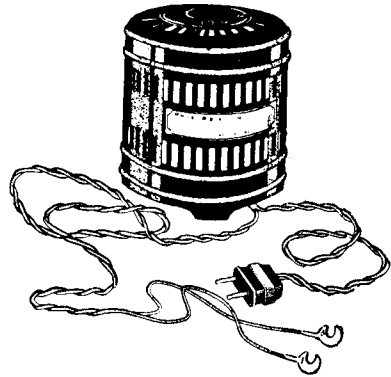
PHILIPS
EDELGASVEILIGHEDEN
(Type 370)



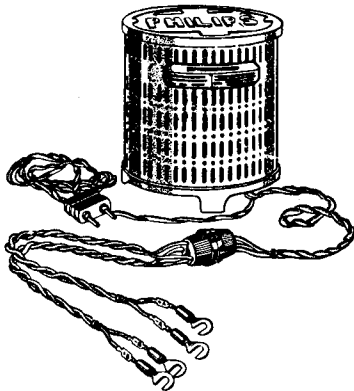
PHILIPS
ANTENNEVEILIGHEID
(Type 4382)



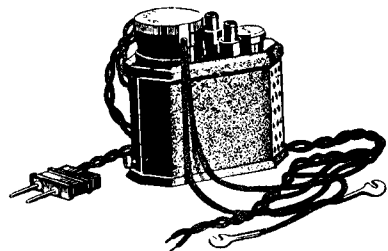
PHILIPS GELIJKRICHTER
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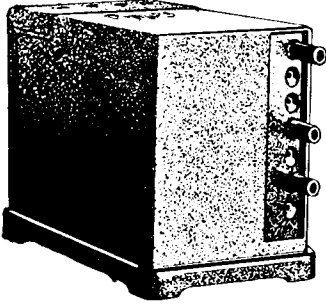
PHILIPS GELIJKRICHTER
(Type 1001)



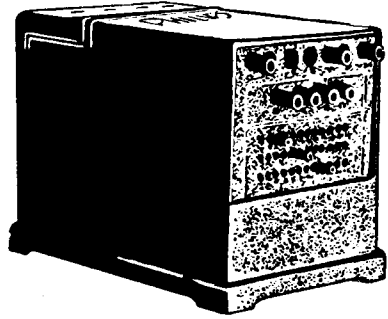
PHILIPS GELIJKRICHTER
(Type 1009)



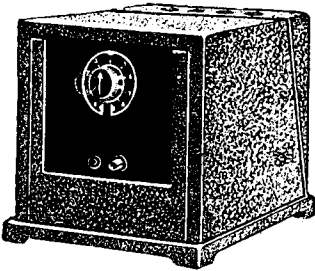
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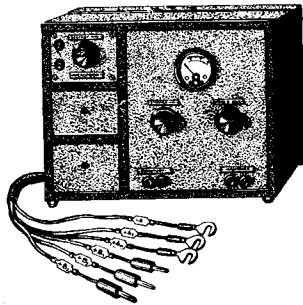
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PLAATSPANNINGSAPPARAAT**
(Type 3002)



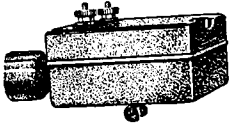
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(Type 3003)



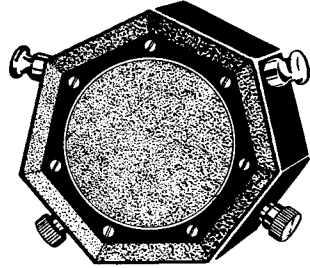
**PHILIPS WISSELSTROOM
GRAMOFOONVERSTERKER**
(Type 2779)



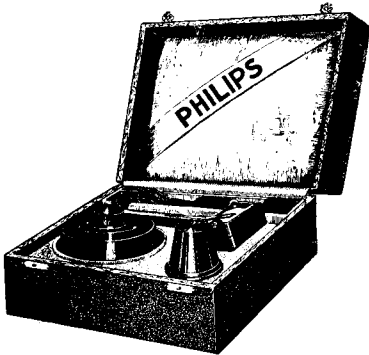
**PHILIPS MICROFOON-
GRAMOFOONVERSTERKER**
(Type 2780)



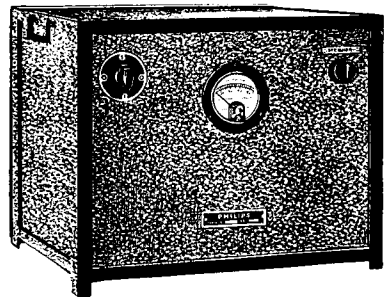
PHILIPS GRAMOFOONOPNEMER
(Type 4006)



PHILIPS MICROFOON
(Type 4043)



PHILIPS GRAMOFOONUITRUSTING
(Type 4040)



PHILIPS 50-WATTVERSTERKER
(Type 2761-62)