

EUREKA

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FIELD APPLICATION CUSTOMER TOPIC
#111-81
(PAGE ONE)

EUREKA ROTATING ANODE X-RAY TUBE SELECTION CHART

3-1/8" (80mm) Target Diameter

INSERT	INSERT TYPE				
TARGET	RAD-8	RAD-13	RAD-14	RAD-27	RAD-28
MATERIAL	TM	TRM	TRM	TRM	TRM
MAX. HU	140 K	300 K	300 K	300 K	300 K
COOL. RATE/ MIN.	30KHU	60KHU	60KHU	60KHU	60KHU
SPEED	REG	REG/HI	REG/HI	REG	REG
ANGLE	16°	16°	12°	16°	12°
COV. @40"/ (100cm)	23" (58cm)	23" (58cm)	17" (43cm)	23" (58cm)	17" (43cm)
kVp		150	150	25-125	25-125
FOCAL SPOTS	1.0-2.0	1.0-2.0	0.6-1.5	1.0-2.0	0.6-1.2
kW RATING	N/A	41/90	27/88	N/A	N/A
FOCAL SPOTS	1.5-1.5	0.7-2.0	0.6-1.2	---	---
kW RATING	N/A	18/90	27/75	---	---
FOCAL SPOTS	0.5-1.5	---	0.3-1.2	---	---
kW RATING	N/A	---	7.5/75	---	---

ABOVE INSERTS MAY BE INSTALLED IN HOUSINGS LISTED BELOW

HOUSING EUREKA	Emerald	Emerald-T Diamond	Emerald-T Diamond	Emerald-MT	Emerald-MT
MACHLETT	DX-25,40,42	DX-40,42,50	DX-50-42	DX-50	DX-50
EIMAC		B-100	B-100	B-100	B-100
PICKER /DUNLEE	PX-300, 1300	PX-300, 1300	PX-300, 1300	PX-300,1300	PX-300,1300
G.E.	HRT	MX-75, HRT	MX-75,HRT	MX-75	MX-75

Note - Focal spot kW ratings indicated are measured at 0.1 seconds, 3 phase, high speed

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4" (100mm) TARGET DIAMETER

INSERT TYPE

<u>INSERT</u>	RAD-16	RAD-19	RAD-21	RAD-38	RAD-60
TARGET	TRM	TRM	TRM	TRM-B	TRM-B
MATERIAL	300K	300K	300K	400K	400K
MAX. HU					
COOL. RATE/ MIN.	75KHU	75KHU	75KHU	140KHU	140KHU
SPEED	REG/HI	REG/HI	REG/HI	REG/HI	REG/HI
ANGLE	16°	10°	12°	12°	12°
COV. @40"/ (100cm)	23" (58cm)	14" (35cm)	17" (43cm)	17" (43cm)	17" (43cm)
p	150	150	150	150	150
Focal Spots	1.0-2.0	0.3-1.2	1.0-2.0	0.6-1.2	0.6-1.2
kW rating	55/120	12.5/119	72/155	36/100	36/100
Focal Spots	0.6-2.0	0.3-1.0	0.6-1.2	---	---
kW rating	27/120	12.5/85	36/100	---	---
Focal Spots	---	---	0.3-1.2	---	---
kW rating	---	---	10/100	---	---

ABOVE INSERTS MAY BE INSTALLED IN HOUSINGS LISTED BELOW

HOUSING

EUREKA	Sapphire	Sapphire	Sapphire	HE Sapphire	HE Sapphire
MACHLETT	DX-60,62	DX-60,62	DX-60,62	DX-60,62	DX-60,62
EIMAC	B-150	B-150	B-150	B-150	B-150
PICKER/DUNLEE	PX-400,1400	PX-400,1400	PX-400,1400	PX-400,1400	PX-400,1400

NOTE - Focal spot kW ratings indicated are measured at 0.1 seconds, 3 phase, high speed



EUREKA X-RAY TUBE CO.

3250 NORTH KILPATRICK AVENUE

CHICAGO, ILLINOIS 60641 (312) 545-3126

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4" (100mm) TARGET DIAMETER (cont'd)

		<u>INSERT TYPE</u>			
<u>INSERT</u>					
TARGET	RAD-25	RAD-30	RAD-31	RAD-40	RAD-56
MATERIAL	TM	TRM	TM	TRM	TRM
MAX. HU	300K	300K	300K	300K	300K
COOL. RATE/ MIN.	75KHU	75KHU	75KHU	75KHU	75KHU
SPEED	REG	REG/HI	REG	REG/HI	REG/HI
ANGLE	14°	16°	14°	12°	14°
COV. @40"/ (100cm)	20" (50cm)	23" (58cm)	20" (50cm)	17" (43cm)	20" (50cm)
Vp	150	25-125	25-125	150	150
FOCAL SPOTS	1.0-2.0	1.0-2.0	1.0-2.0	0.6-1.5	1.0-2.0
kW RATING	N/A	55/120	N/A	36/117	62/125
FOCAL SPOTS	0.6-1.2	---	0.6-1.2	0.6-1.0	0.6-1.2
kW RATING	N/A	---	N/A	36/72	31/85
FOCAL SPOTS	---	---	---	---	0.6-1.0
kW RATING	---	---	---	---	31/62

ABOVE INSERTS MAY BE INSTALLED IN HOUSINGS LISTED BELOW

<u>HOUSING</u>					
EUREKA	Sapphire	Sapphire	Sapphire	Sapphire	Sapphire
MACHLETT	DX-60,62	DX-60,62	DX-60,62	DX-60,62	DX-60,62
EIMAC	B-150	B-150	B-150	B-150	B-150
PICKER/DUNLEE	PX-400,1400	PX-400,1400	PX-400,1400	PX-400,1400	PX-400,1400
G.E.	N/A	N/A	N/A	MX-100	N/A

Note - Focal spot kW ratings indicated are measured at 0.1 seconds, 3 phase, high speed

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INSERTS DESIGNED FOR DIRECT REPLACEMENT
IN HOUSINGS MANUFACTURED BY COMPETITORS

4" (100mm) Target Diameter

INSERT TYPE

TARGET	RAD-51	RAD-52	RAD-50	RAD-57
MATERIAL	TRM-B	TRM-C	TRM-B	TRM-B
MAX. HU	400K	400K	400K	400K
COOL. RATE/ MIN.	140KHU	50KHU*	140KHU	140KHU
SPEED	REG/HI	REG/HI	REG/HI	REG/HI
ANGLE	12°	12°	12°	14°
COV. @40"/ (100cm)	17" (43cm)	17" (43cm)	17" (43cm)	20" (50cm)
kVp	150	150	150	150
FOCAL SPOTS	0.6-1.2	0.6-1.2	0.6-1.2	0.6-1.0
KW RATING	40/101	40/101	40/101	26/43
FOCAL SPOTS	0.6-1.0	0.6-1.0	0.6-1.0	---
KW RATING	30/50	30/50	30/50	---
FOCAL SPOTS	0.3-1.2	0.3-1.2	0.3-1.2	---
KW RATING	12/101	12/101	12/101	---

ABOVE INSERTS MAY BE INSTALLED IN HOUSINGS LISTED BELOW

HOUSING				
SIEMENS	150/100L	150/100L	N/A	150/100L
MACHLETT	N/A	N/A	DX-70G	N/A

These inserts have been designed to meet, or exceed operational parameters established by the original manufacturer, unless otherwise noted.

*Based on useable operational conditions not utilizing full heat storage capability of the anode.

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INSERTS DESIGNED FOR DIRECT REPLACEMENT
IN HOUSINGS MANUFACTURED BY COMPETITORS

INSERT TYPE

TARGET	RAD-55	RAD-54
DIAMETER	90mm	90mm
MATERIAL	TRM-B	TRM-B
MAX. HU	325K	325K
COOL. RATE/ MIN	120KHU	120KHU
SPEED	REG/HI	REG/HI
ANGLE	12°	12°
COV. @ 40"/ (100cm)	17" (43cm)	17" (43cm)
kVp	150	150
Focal Spots	0.6-1.2	0.6-1.2
kW Rating	33/88	33/88
Focal Spots	0.3-1.2	0.3-1.2
kW Rating	10/88	10/88

ABOVE INSERTS MAY BE INSTALLED IN HOUSINGS
LISTED BELOW

HOUSING

PHILIPS	Rotalix 350	N/A
CGR	N/A	Statorix 240
CGR	N/A	Statorix 260

These inserts have been designed to meet, or exceed, operational parameters established by the original manufacturer, unless otherwise noted.