



Industrial Engineering & Equipment Co, Inc.  
 425 Hanley Industrial Court  
 St. Louis, MO 63144 USA  
 Phone: (314) 644-4300 Fax: (314) 644-5332  
 www.indeeco.com



### SUBMITTAL FORM

Job Name:	
Location:	
Architect:	
Engineer:	
Contractor:	
Submitted by:	
Date:	
Approved by:	
Date:	

#### HEATER SELECTION CHART

Item #	Qty.	Catalog Number	Tag	Watts (kW)	Volts	PH	Amps	Length	Color

<b>COMMENTS:</b>

Watts (1)		Volts	Phase	Total Amps (2)		CFM		Approximate Air Temperature Rise °F (°C)	Heater Length In. (mm)	Weight lb (kg)	Catalog Number	☒
Max.	Min.			Max	Min	Max.	Min.					
2000	1333	208	1	11.0	7.8	250	200	26 (14)	28 (711)	115 (52)	922U02000C¶§	<input type="checkbox"/>
		208	3	7.0	5.1	250	200	26 (14)	28 (711)	115 (52)	922U02000D¶§	<input type="checkbox"/>
		240	1	9.7	7.0	250	200	26 (14)	28 (711)	115 (52)	922U02000J¶§	<input type="checkbox"/>
		240	3	6.2	4.6	250	200	26 (14)	28 (711)	115 (52)	922U02000K¶§	<input type="checkbox"/>
		277	1	8.6	6.2	250	200	26 (14)	28 (711)	115 (52)	922U02000N¶§	<input type="checkbox"/>
		480	3	3.8	3.0	250	200	26 (14)	28 (711)	115 (52)	922U02000U¶§	<input type="checkbox"/>
3000	1000	208	1	15.8	6.2	250	200	38 (21)	28 (711)	115 (52)	922U03000C¶§	<input type="checkbox"/>
		208	3	9.7	4.2	250	200	38 (21)	28 (711)	115 (52)	922U03000D¶§	<input type="checkbox"/>
		240	1	13.9	5.6	250	200	38 (21)	28 (711)	115 (52)	922U03000J¶§	<input type="checkbox"/>
		240	3	8.6	3.8	250	200	38 (21)	28 (711)	115 (52)	922U03000K¶§	<input type="checkbox"/>
		277	1	12.2	5.0	250	200	38 (21)	28 (711)	115 (52)	922U03000N¶§	<input type="checkbox"/>
		480	3	5.0	2.6	250	200	38 (21)	28 (711)	115 (52)	922U03000U¶§	<input type="checkbox"/>
4000	2667	208	1	20.6	14.2	250	200	51 (28)	28 (711)	115 (52)	922U04000C¶§	<input type="checkbox"/>
		208	3	12.5	8.8	250	200	51 (28)	28 (711)	115 (52)	922U04000D¶§	<input type="checkbox"/>
		240	1	18.1	12.5	250	200	51 (28)	28 (711)	115 (52)	922U04000J¶§	<input type="checkbox"/>
		240	3	11.0	7.8	250	200	51 (28)	28 (711)	115 (52)	922U04000K¶§	<input type="checkbox"/>
		277	1	15.8	11.0	250	200	51 (28)	28 (711)	115 (52)	922U04000N¶§	<input type="checkbox"/>
		480	3	6.2	4.6	250	200	51 (28)	28 (711)	115 (52)	922U04000U¶§	<input type="checkbox"/>
5000	3333	208	1	25.4	17.4	250	200	64 (36)	28 (711)	115 (52)	922U05000C¶§	<input type="checkbox"/>
		208	3	15.3	10.7	250	200	64 (36)	28 (711)	115 (52)	922U05000D¶§	<input type="checkbox"/>
		240	1	22.2	15.3	250	200	64 (36)	28 (711)	115 (52)	922U05000J¶§	<input type="checkbox"/>
		240	3	13.4	9.4	250	200	64 (36)	28 (711)	115 (52)	922U05000K¶§	<input type="checkbox"/>
		277	1	19.5	13.4	250	200	64 (36)	28 (711)	115 (52)	922U05000N¶§	<input type="checkbox"/>
		480	3	7.4	5.4	250	200	64 (36)	28 (711)	115 (52)	922U05000U¶§	<input type="checkbox"/>
6000	4000	208	1	30.2	20.6	250	200	77 (43)	28 (711)	115 (52)	922U06000C¶§	<input type="checkbox"/>
		208	3	18.1	12.5	250	200	77 (43)	28 (711)	115 (52)	922U06000D¶§	<input type="checkbox"/>
		240	1	26.4	18.1	250	200	77 (43)	28 (711)	115 (52)	922U06000J¶§	<input type="checkbox"/>
		240	3	15.8	11.0	250	200	77 (43)	28 (711)	115 (52)	922U06000K¶§	<input type="checkbox"/>
		277	1	23.1	15.8	250	200	77 (43)	28 (711)	115 (52)	922U06000N¶§	<input type="checkbox"/>
		480	3	8.6	6.2	250	200	77 (43)	28 (711)	115 (52)	922U06000U¶§	<input type="checkbox"/>
8000	4000	208	1	41.3	22.0	500	400	51 (28)	48 (1219)	146 (66)	922U08000C¶§	<input type="checkbox"/>
		208	3	25.0	13.9	500	400	51 (28)	48 (1219)	146 (66)	922U08000D¶§	<input type="checkbox"/>
		240	1	36.1	19.5	500	400	51 (28)	48 (1219)	146 (66)	922U08000J¶§	<input type="checkbox"/>
		240	3	22.0	12.4	500	400	51 (28)	48 (1219)	146 (66)	922U08000K¶§	<input type="checkbox"/>
		277	1	31.7	17.2	500	400	51 (28)	48 (1219)	146 (66)	922U08000N¶§	<input type="checkbox"/>
		480	3	12.4	7.6	500	400	51 (28)	48 (1219)	146 (66)	922U08000U¶§	<input type="checkbox"/>
10000	5000	208	1	50.9	26.8	500	400	64 (36)	48 (1219)	146 (66)	922U10000C¶§	<input type="checkbox"/>
		208	3	30.6	16.7	500	400	64 (36)	48 (1219)	146 (66)	922U10000D¶§	<input type="checkbox"/>
		240	1	44.5	23.6	500	400	64 (36)	48 (1219)	146 (66)	922U10000J¶§	<input type="checkbox"/>
		240	3	26.9	14.8	500	400	64 (36)	48 (1219)	146 (66)	922U10000K¶§	<input type="checkbox"/>
		277	1	38.9	20.9	500	400	64 (36)	48 (1219)	146 (66)	922U10000N¶§	<input type="checkbox"/>
		480	3	14.8	8.8	500	400	64 (36)	48 (1219)	146 (66)	922U10000U¶§	<input type="checkbox"/>
12000	6000	208	1	60.5	31.6	500	400	77 (43)	48 (1219)	146 (66)	922U12000C¶§	<input type="checkbox"/>
		208	3	36.1	19.5	500	400	77 (43)	48 (1219)	146 (66)	922U12000D¶§	<input type="checkbox"/>
		240	1	52.8	27.8	500	400	77 (43)	48 (1219)	146 (66)	922U12000J¶§	<input type="checkbox"/>
		240	3	31.7	17.2	500	400	77 (43)	48 (1219)	146 (66)	922U12000K¶§	<input type="checkbox"/>
		277	1	46.1	24.5	500	400	77 (43)	48 (1219)	146 (66)	922U12000N¶§	<input type="checkbox"/>
		480	3	17.2	10.0	500	400	77 (43)	48 (1219)	146 (66)	922U12000U¶§	<input type="checkbox"/>

Watts (1)		Volts	Phase	Total Amps (2)		CFM		Approximate Air Temperature Rise °F (°C)	Heater Length In. (mm)	Weight lb (kg)	Catalog Number	☒
Max.	Min.			Max	Min	Max.	Min.					
15000	8333	208	1	76.3	44.3	750	600	63 (35)	66 (1677)	210 (96)	922U15000C¶§	<input type="checkbox"/>
		208	3	45.8	27.3	750	600	63 (35)	66 (1677)	210 (96)	922U15000D¶§	<input type="checkbox"/>
		240	1	66.7	38.9	750	600	63 (35)	66 (1677)	210 (96)	922U15000J¶§	<input type="checkbox"/>
		240	3	40.3	24.2	750	600	63 (35)	66 (1677)	210 (96)	922U15000K¶§	<input type="checkbox"/>
		480	3	22.2	14.2	750	600	63 (35)	66 (1677)	210 (96)	922U15000U¶§	<input type="checkbox"/>
18000	10000	208	1	90.7	52.3	750	600	77 (43)	66 (1677)	210 (96)	922U18000C¶§	<input type="checkbox"/>
		208	3	54.2	32.0	750	600	77 (43)	66 (1677)	210 (96)	922U18000D¶§	<input type="checkbox"/>
		240	1	79.2	45.9	750	600	77 (43)	66 (1677)	210 (96)	922U18000J¶§	<input type="checkbox"/>
		240	3	47.5	28.3	750	600	77 (43)	66 (1677)	210 (96)	922U18000K¶§	<input type="checkbox"/>
		480	3	25.9	16.2	750	600	77 (43)	66 (1677)	210 (96)	922U18000U¶§	<input type="checkbox"/>
20000	10000	208	1	101.8	53.7	1000	800	64 (36)	80 (2032)	240 (109)	922U20000C¶§	<input type="checkbox"/>
		208	3	61.1	33.4	1000	800	64 (36)	80 (2032)	240 (109)	922U20000D¶§	<input type="checkbox"/>
		240	1	88.9	47.3	1000	800	64 (36)	80 (2032)	240 (109)	922U20000J¶§	<input type="checkbox"/>
		240	3	53.7	29.7	1000	800	64 (36)	80 (2032)	240 (109)	922U20000K¶§	<input type="checkbox"/>
		480	3	29.7	17.6	1000	800	64 (36)	80 (2032)	240 (109)	922U20000U¶§	<input type="checkbox"/>
24000	12000	208	3	72.2	38.9	1000	800	77 (43)	80 (2032)	240 (109)	922U24000D¶§	<input type="checkbox"/>
		240	1	105.6	55.6	1000	800	77 (43)	80 (2032)	240 (109)	922U24000J¶§	<input type="checkbox"/>
		240	3	63.3	34.5	1000	800	77 (43)	80 (2032)	240 (109)	922U24000K¶§	<input type="checkbox"/>
		480	3	34.5	20.0	1000	800	77 (43)	80 (2032)	240 (109)	922U24000U¶§	<input type="checkbox"/>

(1) To obtain the minimum ratings it is necessary to add the optional "N1" two-speed motor with high/low switch for manual operation or option "N2" two-speed motor with high/low relay-24 Volt. The "N2" can be connected to a remote two-stage, wall-mounted thermostat or field furnished low voltage device for maximum/minimum control.

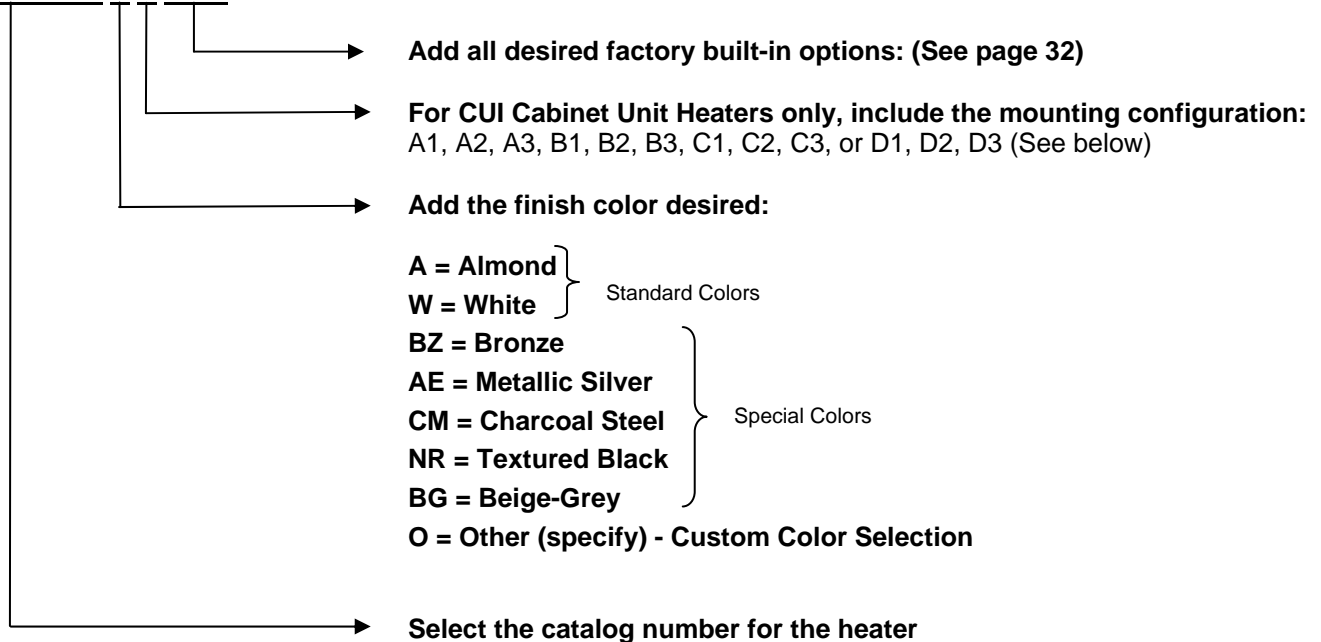
(2) Total Amps = Heating element amps and motor amps.  
Other voltages available. Consult factory.

¶ Standard colors - Add W for white finish or A for almond finish to the end of catalog number.

§ Specify mounting application letter when ordering.

## HOW TO ORDER

9XXXXXXXXX A D -EFG



## Factory Built-in Options

<input checked="" type="checkbox"/>	Code	Description
<input type="checkbox"/>	A1	Fresh Air Inlet (1)
<input type="checkbox"/>	A2	Power Operated Fresh Air Inlet (1)
<input type="checkbox"/>	D1	Disconnect Switch 600V, Three-pole, 40 Amp
<input type="checkbox"/>	D2	Disconnect Switch 600V, Three-pole, 80 Amp
<input type="checkbox"/>	G	Fusing
<input type="checkbox"/>	M	Manual Reset
<input type="checkbox"/>	N1	2-Speed Motor w/High-Low Switch (2)
<input type="checkbox"/>	N2	2-Speed Motor w/High-Low Relay-24V(1)(2)(3)
<input type="checkbox"/>	R1	24V Relay
<input type="checkbox"/>	R2	24V Relay with Transformer
<input type="checkbox"/>	S	Smooth Finish on Heater Back Heater
<input type="checkbox"/>	S1	On/Auto Fan Relay-24V
<input type="checkbox"/>	S3	On/Auto Fan Switch
<input type="checkbox"/>	S4	On/Off Switch
<input type="checkbox"/>	T1	Tamperproof Thermostat, Single-pole
<input type="checkbox"/>	T7	2-Stage Thermostat (4)

- (1) Do not install built-in thermostat with these options.  
 (2) To obtain the minimum ratings, it is necessary to add the optional "N1" two-speed motor with high/low switch for manual operation or option "N2" two-speed motor with high/low relay-24 Volt. The "N2" can be connected to a remote two-stage, wall-mounted thermostat or field-furnished low voltage device for maximum/minimum control.  
 (3) Option N2 is required for two-stage remote thermostat operation.  
 (4) When choosing Option T7; A1, A2, N1, N2, R1, R2 & T1 are unavailable.

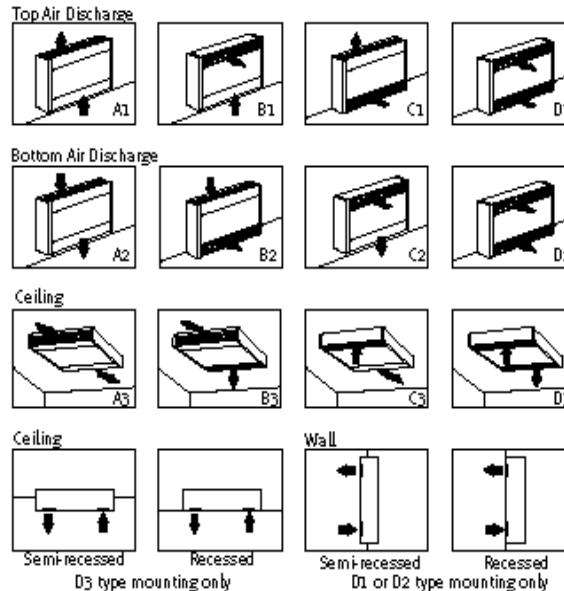
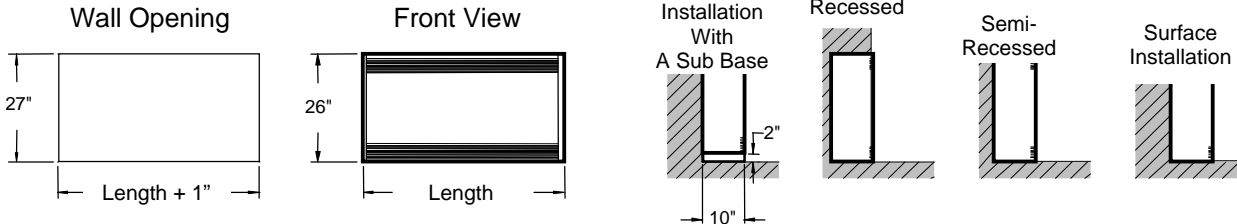
## Field-Installed Options

(shipped loose for field installation into heater)

<input checked="" type="checkbox"/>	Catalog Number	Description	Heater Length In. (mm)
<input type="checkbox"/>	922-124530¶	Sub Base	28 (711)
<input type="checkbox"/>	922-124531¶		48 (1219)
<input type="checkbox"/>	922-124532¶		66 (1676)
<input type="checkbox"/>	992-124533¶		80 (2032)
<input type="checkbox"/>	922-124534¶	Recessed Trim Kit	28 (711)
<input type="checkbox"/>	922-124535¶		48 (1219)
<input type="checkbox"/>	922-124536¶		66 (1676)
<input type="checkbox"/>	922-124537¶		80 (2032)
<input type="checkbox"/>	922-124538P	Permanent/Washable Air Filters (Wall Installation Only)	28 (711)
<input type="checkbox"/>	922-124539P		48 (1219)
<input type="checkbox"/>	922-124540P		66 (1676)
<input type="checkbox"/>	922-124541P		80 (2032)
<input type="checkbox"/>	922-124538	Replaceable Throwaway Air Filters (Wall Installation Only)	28 (711)
<input type="checkbox"/>	922-124539		48 (1219)
<input type="checkbox"/>	922-124540		66 (1676)
<input type="checkbox"/>	922-124541		80 (2032)

¶ Standard colors - Add W for white finish or A for almond finish to the end of part number.

Maximum recommended installation height:  
10 feet



## Architect's and Engineer's Specifications

The specified heating equipment shall include an electric, fan-forced air cabinet unit heater suitable for space heating as manufactured by INDEECO. The cabinet unit heater shall be designed for mounting in any position including on-end, fully recessed, semi-recessed or surface mounted. Heaters shall be third party approved to UL standard 2021. CSA-US or equivalent is acceptable.

**Cabinet** shall be of heavy-duty, 18 Ga. minimum cold rolled steel. The heater front cover shall be hinged for simplified maintenance. The cover shall be secured to the cabinet by a maximum of two screws. The grille shall be an extruded aluminum bar that prevents insertion of foreign objects. Inlet and outlet grilles can be field changeable for 12 air inlet and outlet combinations. Cabinet finish shall be an epoxy/polyester powder paint in either white or almond. Optional – Color by architect.

**Heating Elements** shall be of finned tubular type and located directly down stream of the blower discharge air for uniform heating.

**Thermal Cutouts** shall be built-in to every heater for temperature protection. The automatic reset thermal cutouts shall directly interrupt power to the elements without the use of relays. Optional – Manual reset thermal cutout for back-up temperature protection.

**Motor and Blower Assembly** shall be a squirrel cage fan that is beltless. The fans shall be powered by motors with permanently lubricated ball bearing for years of trouble free service. The blower wheel shall be mounted directly on the motor shaft, which reduces noise level. The decibel ratings of the assembly shall not exceed 50 dBA. The motor shall be a two speed, 1/15 HP with automatic reset overload protection.

**Air Filters** are optional and shall be located ahead of the motor assembly and blower to assure clean air circulation. Either replaceable (throw-away) or washable (permanent) type filters must be specified.

**Temperature Control** includes an optional built-in, single pole, tamperproof thermostat. A 24 Volt relay may be substituted for the on/off switch or thermostat options.

**Other Control Options** include On/Off switch, Hi/Low switch for 2-speed motor and an On/Auto fan switch.

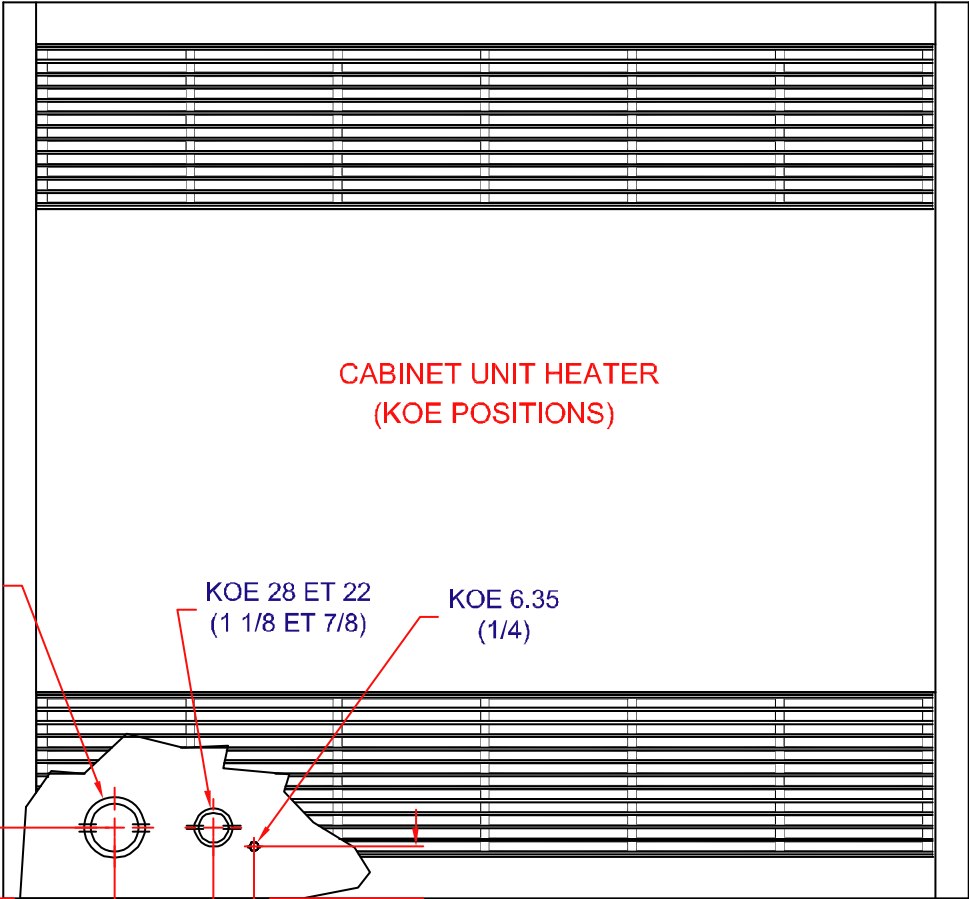
**Other Optional Features** include a power operated fresh air inlet, smooth finish back-mounting plate when back of heater is visible, recess trim for non-surface mounted units, sub base for floor mounted units and fusing when heater load is below 48 Amps.

### Factory Built-In Options *[Check Options to be included]*

- Fresh Air Inlet (1)
- Power Operated Fresh Air Inlet (1)
- Disconnect Switch 600V, Three-pole, 40 Amp
- Disconnect Switch 600V, Three-pole, 80 Amp
- Fusing
- Manual Reset
- 2-Speed Motor w/High-Low Switch (2)
- 2-Speed Motor w/High-Low Relay-24V(1)(2)(3)
- 24V Relay
- 24V Relay with Transformer
- Smooth Finish on Heater Back Heater
- On/Auto Fan Relay-24V
- On/Auto Fan Switch
- On/Off Switch
- Tamperproof Thermostat, Single-pole

### Field-Installed Options (shipped loose for field installation into heater) *[Check options to be included]*

- Sub Base
- Recess Trim Kit
- Permanent/Washable Air Filters (Wall Installation Only)
- Replaceable Throwaway Air Filters (Wall Installation Only)
- Special Back Plate



CABINET UNIT HEATER  
(KOE POSITIONS)

KOE 44.5 ET 35  
(1 3/4 ET 1 3/8)

KOE 28 ET 22  
(1 1/8 ET 7/8)

KOE 6.35  
(1/4)

57 (2 1/4)

84.0  
(3 5/16)

38.0 (2 1/4)  
(1 1/4)

157.0  
(6 3/16)

187.0  
(3 3/8)

BOTTOM



KOE 44.5 ET 35  
(1 3/4 ET 1 3/8)

KOE 6.35  
(1/4)

49.0 (2 1/4)  
(1 15/16)

84.0  
(3 5/16)

KOE 28 ET 22  
(1 1/8 ET 7/8)

157.0  
(6 3/16)

187.0  
(3 3/8)