ROSEMEX PRODUCTS REV. 1 2018 HEATING

UNIT HEATERS

FOR STEAM OR HOT WATER

ROSEMEX HEATING

FEATURES

BROAD RANGE OF APPLICATION

- Hot water or steam ROSEMEX unit heaters provide economical “space comfort” for industrial, commercial and institutional applications.
- Horizontal models H and HS in 13 sizes; up to 524 MBH.
- Vertical models V and VS in 13 sizes; up to 602.5 MBH.
- Greater throw with “low outlet temperature» HS and VS units (with high pressure steam).
- Maximum flexibility of air distribution with diffuser arrangements. Standart on horizontal and optional on vertical models
- Units with special coil available on request: copper fins on copper tubes, heresite coated coils or red brass tubes.

HIGH PERFORMANCE

- More CFM for lower outlet air temperature.
- Quieter operation with lower RPM motors.
- Greater air throw and circulation.
- Top opening on V models helps recover warm air at ceiling.
- Suitable for higher temperature drops.
- HS and VS units have wider fin spacing allowing for higher CFM and higher outlet velocities for even greater throw.
- Guaranteed to be free from defects in material or workmanship for a period of one year from date of purchase.

RUGGED “LONG-LIFE” CONSTRUCTION

- Casing: die formed, reinforced steel.
- Finish: sheet metal chemically degreased, phosphatized and etched. Semi-gloss “grey” paint finish.
- Coil: steel pipe headers, copper tubes, ribbed aluminum corrugated fins. Is standard on all models. All coils are tested at 350 PSIG air pressure insubmerged water.
- Motors: specially selected and tested; thermally protected; permanently lubricated for a minimum of 20,000 hours on all models, Motors are totally enclosed airover.
- Motor mounts: rugged, corrosion resistant. All motors or supports resiliently mounted.
- Fans: aluminum blades; sturdy, balanced, efficient and quiet.

EASY MAINTENANCE

- All parts fully accessible for maintenance, service or replacement.
- Motors readily accessible on model H units, and easily removable through fan opening on model V units.

APPEARANCE

- Compact and attractive. Modern design enhanced by aluminium semi-gloss finish.

CUTAWAY VIEWS

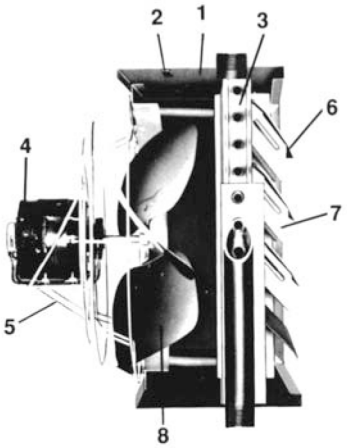


FIGURE 1

MODEL H

1. Heavy gauge steel cabinet
2. Speed grip nut for solid easy hanging of unit
3. One-row coil with single connecting header on one side for half circuit
4. Heavy duty motor designed for longer life, permanently lubricated for a minimum of 20,000 hours
5. Rugged protective motor-mounts
6. Adjustable louvers
7. Louver fin diffusers
8. Sturdy balanced fan blade

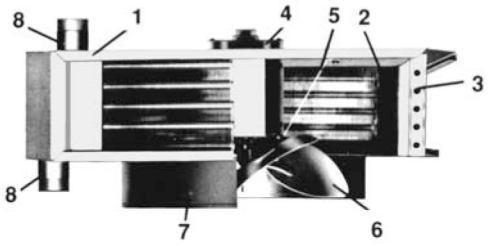


FIGURE 2

MODEL V

1. Heavy gauge steel cabinet
2. Speed grip nut for solid easy hanging of unit
3. One-row coil with full header at each end for a full circuit
4. Heavy duty motor designed for longer life, permanently lubricated for a minimum of 20,000 hours
5. Steel plate, rubber mounted motor support
6. Factory balanced quiet operating aluminum fan blades
7. Deep fan opening collar which encircles full depth of fan blade for protection against damage and also for better air distribution
8. Header brazed to copper tubes
9. Protective fan guard grille standart issued.

GENERAL SELECTION

HEAT LOSSES

Should be calculated according to ASHRAE Guide and to Rosemex Selection Prog. or other reliable sources.

MODEL SELECTION

The model selected should be suitable for the type of building or area to be served. Model H units are generally used with low ceilings (see Table 2 for mounting height and spread). Model V units are recommended with high ceilings. They are particularly efficient in plants, warehouses or similar applications where they recover warm air which stratifies near ceilings (see Table 3 for mounting height and spread). Model V unit heaters with louver cone diffusers can also be used with higher ceilings.

NUMBER OF UNITS

Select required number of units to handle the heat losses, and also for proper air motion, adequate coverage of the occupied space, and operation within permissible sound levels. For instance, although one large unit may be sufficient for a certain area, two smaller units may be specified at a lower RPM for quieter operation, and to provide better heat distribution and circulation.

SPOT HEATING

It is usually more effective to discharge air across, instead of into, an open door. The throw shown in the performance tables applies to draft-free buildings with relatively stable temperatures. When heating only a small area within a cold environment, experience shows that the published throw may be reduced by as much as 50%.

MODEL H

UNIT HEATING

Unit Heaters should be spotted to aim the discharge towards the source of heat loss, but precautions should be taken to avoid blasting people with the warm air mass. Model H units should be located to achieve maximum air rotation in the same direction at the outside walls.

ECONOMY AND COMFORT

Where individual comfort is not an important factor, the prime consideration is to design the most economical system which will satisfy overall heating requirements. Larger units requiring less piping are recommended. Where the physical comfort of the occupants is important, several smaller units will provide quieter operation, better heat distribution, and more even temperatures.

PIPING

For unit heater piping connections, see AMCA Bulletin No. 15.

NOTE:
Although the cone diffuser can be mounted on Model V, it is recommended that the cone diffuser be mounted approximately four inches below the fan collar using fourbrackets (not shown) to provide optimum heat dispersion.

MODEL V

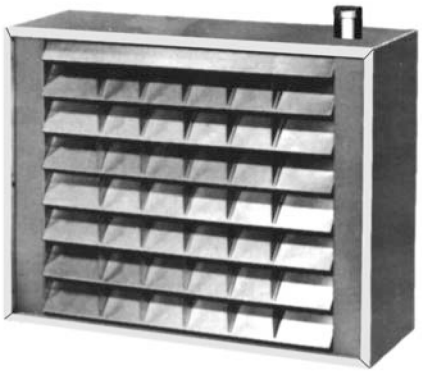
TABLE 1
STEAM UNIT HEATERS (LESS THAN 15 PSI)

CAT NO.	STEAM - 2 PSIG ENT. AIR - 60°F				MOTOR 115V/1/60			CFM @ 60°F	OUTLET VELO-CITY	SOUND CLASS	SPREAD STEAM 2 PSIG	
	EDR	COND. lb/h	MBH	FIN TEMP.	NOM. HP	NOM. RPM	NOM. AMP.				H	S
HS-25	109	27.2	26.2	113	1/20	1000	0.94	460	483	1	9	24
HS-31	130	32.3	31.2	102	1/20	1550	0.94	680	714	1	9	38
HS-39	162	40.3	38.9	121	1/20	1000	0.94	595	795	1	9	21
HS-47	193	48.0	46.4	109	1/20	1550	0.94	880	683	1	9	30
HS-43	174	43.4	41.9	114	1/12	1000	1.60	725	559	1	9	24
HS-51	213	53.0	51.2	102	1/12	1550	1.60	1120	756	2	9	41
HS-73	301	74.8	72.3	104	1/6	1075	2.60	1525	800	2	12	38
HS-95	396	98.4	95.1	109	1/6	1075	2.60	1800	442	2	14	46
HS-97	405	100.1	97.3	113	1/4	820	3.60	1685	540	2	14	43
HS-113	473	117.4	113.4	104	1/4	1100	3.60	2400	772	2	14	52
HS-117	490	121.9	117.7	113	1/4	850	3.60	2060	540	2	14	42
HS-137	572	142.0	137.2	103	1/4	1075	3.60	2930	772	2	14	50
HS-175	729	182.0	175.0	120	1/3	820	4.90	2690	467	3	15	49
HS-205	851	211.2	204.2	109	1/3	1100	4.90	3830	667	4	15	59
HS-265	1106	274.7	265.4	109	1/3	1075	6.70	5000	672	4	16	63

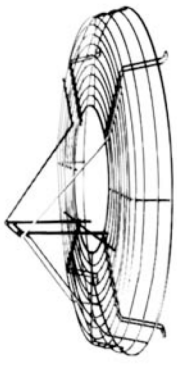
TABLE 2
STEAM UNIT HEATERS (LESS THAN 15 PSI)

CAT NO.	STEAM - 2 PSIG ENT. AIR - 60°F				MOTOR 575/3/60			CFM @ 60°F	OUTLET VELO-CITY	SOUND CLASS	SPREAD STEAM 2 PSIG	
	EDR	COND. lb/h	MBH	FIN TEMP.	NOM. HP	NOM. RPM	NOM. AMP.				H	S
HS-420	1660	412.3	398.4	120	1 1/2	1140	2.30	6150	775	4	16	68

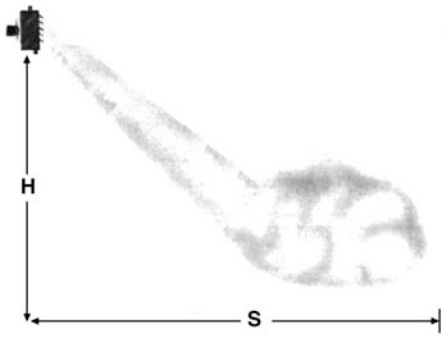
MODEL H



ALL UNITS c/w
4 WAY LOUVER FIN DIFFUSER



MOTOR MOUNT



SPREAD

A. All units with 0.035" Red Brass Tubes, 5/8" outside diameter mechanically bounded to alluminum fins.
B. Higher steam pressure units available on request.

STEAM CAPACITIES
VERTICAL PROJECTION

TABLE 3
STEAM UNIT HEATERS (LESS THAN 15 PSI)

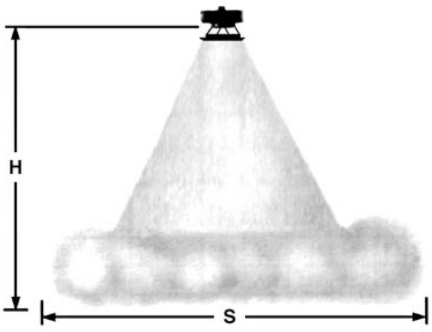
CAT NO.	STEAM - 2 PSIG ENT. AIR - 60°F				MOTOR 115V/1/60			CFM @ 60°F	OUTLET VELO-CITY	SOUND CLASS	THROW STEAM 2 PSIG			
	EDR	COND. lb/h	MBH	FIN TEMP.	NOM. HP	NOM. RPM	NOM. AMP.				NO CONE		LOUVER CONE	
											H	S	H	S
VS-47	193	48.0	46.4	136	1/30	1000	1.15	565	715	1	12	24	15	16
VS-55	230	57.1	55.2	122	1/30	1550	1.15	830	1050	2	15	36	18	21
VS-57	238	59.1	57.1	121	1/12	1000	1.60	865	809	1	15	36	18	21
VS-67	283	70.4	68.0	109	1/12	1550	1.60	1275	1190	2	17	45	22	25
VS-89	274	93.0	89.9	116	1/6	820	2.60	1490	1068	2	19	45	26	29
VS-103	427	106.0	102.5	107	1/6	1100	2.60	2000	1433	2	23	65	30	44
VS-137	571	141.8	137.0	108	1/4	850	3.60	2640	1490	2	23	52	36	38
VS-157	653	161.9	156.4	101	1/4	1075	3.60	3550	2000	4	29	79	41	44
VS-171	715	177.8	171.9	120	3/4	820	10.30	2640	840	1	20	37	26	27
VS-197	816	202.3	196.0	111	3/4	1100	10.30	3550	1130	2	22	39	30	30
VS-247	1029	255.8	246.9	106	1	820	14.00	4960	1580	2	27	56	41	41
VS-279	1159	288.0	278.5	99	1	1075	14.00	6660	2120	4	35	71	50	56
VS-361	1501	372.9	360.1	113	1	820	14.00	6260	1273	2	37	75	54	51
VS-413	1719	425.5	412.5	105	1	1075	14.00	8430	1716	3	48	97	66	70

TABLE 4
STEAM UNIT HEATERS (LESS THAN 15 PSI)

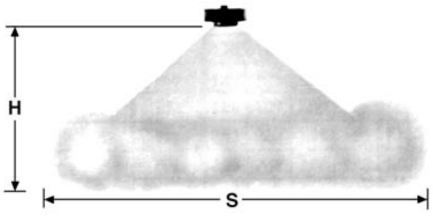
CAT NO.	STEAM - 2 PSIG ENT. AIR - 60°F				MOTOR 575/3/60			CFM @ 60°F	OUTLET VELO-CITY	SOUND CLASS	SPREAD STEAM 2 PSIG			
	EDR	COND. lb/h	MBH	FIN TEMP.	NOM. HP	NOM. RPM	NOM. AMP.				NO CONE		LOUVER CONE	
											H	S	H	S
VS-595	2484	616.0	595.5	110	2	1100	2.8	11900	2420	4	64	118	80	95

MODEL V

OPTIONAL
LOUVER CONE DIFFUSER



WITH CONE DIFFUSER



WITHOUT CONE DIFFUSER

A. All units with 0.035" Red Brass Tubes, 5/8" outside diameter mechanically bounded to alluminum fins.
B. Higher steam pressure units available on request.

SELECTING A UNIT HEATER FOR USE WITH STEAM

DESIGN CONDITIONS

- Heating load = 139 MBH
- Entering air temperature (EAT) = 70°F
- Steam pressure = 10 PSIG
- Mounting height = 30 feet
- Standard vertical projection steam unit required (Model VS).

SELECTION PROCEDURE

1. Calculate equivalent capacity at conditions of Table 4.

$$\text{Equivalent capacity} = \frac{\text{Capacity required}}{\text{Factor (Table 5)}}$$

$$= \frac{139}{1.04} = 134 \text{ MBH}$$

From Table 4, select Cat. No. VS-137 unit heater.

2. Calculate unit capacity at actual conditions.

Actual capacity = MBH (Table 4) x Factor (Table 5)
= 137 x 1.04 = 142.4 MBH

3. Calculate weight of condensate in pounds per hour.

$$\text{Pounds of condensate} = \frac{\text{Actual BTUH}}{\text{Latent heat (Table 5)}}$$

$$= \frac{142{,}400}{953} = 149 \text{ lb/hr}$$

4. Calculate final air temperature (FAT).

$$\text{FAT} = \text{EAT} + \frac{\text{Actual BTUH}}{\text{CFM x 1.08}}$$

$$= 70 + \frac{142{,}400}{2640 \text{ x } 1.08} = 119°\text{F}$$

5. Determine air mounting height at actual conditions.

At Table 4 conditions, mounting height of VS-137 is 23 feet without diffuser and 36 feet with louver cone diffuser.

At actual conditions (10 PSIG and 70°F EAT).

Height = 23 x 0.98 (Table 6) = 22.5 feet (without diffuser)
= 36 x 0.98 (Table 6) = 35.3 feet (with louver cone diffuser)

Louver cone diffuser shall be used.

NOTE: See "GENERAL SELECTION" for application details (page XX), and Table 7 for noise level.

TABLE 5
BTU CORRECTION FACTORS

STEAM PSIG	LATENT HEAT BTUH/lb	MODELS H & HS HORIZONTAL PROJECTION ENTERING AIR TEMPERATURE °F												MODELS V & VS HORIZONTAL PROJECTION ENTERING AIR TEMPERATURE °F											
		-10	0	10	20	30	40	50	60	70	80	90	100	-10	0	10	20	30	40	50	60	70	80	90	100
0	970	1.54	1.45	1.37	1.27	1.19	1.11	1.03	0.96	0.88	0.81	0.74	0.67	1.48	1.41	1.33	1.25	1.18	1.11	1.03	0.96	0.89	0.82	0.75	0.69
2	966	1.59	1.50	1.41	1.32	1.24	1.16	1.08	1.00	0.93	0.85	0.78	0.71	1.52	1.44	1.36	1.29	1.22	1.14	1.07	1.00	0.93	0.86	0.79	0.73
5	961	1.64	1.55	1.46	1.37	1.29	1.21	1.13	1.05	0.97	0.90	0.83	0.76	1.57	1.49	1.41	1.33	1.26	1.19	1.11	1.05	0.98	0.91	0.84	0.77
10	953	1.73	1.64	1.55	1.46	1.38	1.29	1.21	1.13	1.06	0.98	0.91	0.84	1.64	1.56	1.48	1.40	1.33	1.25	1.18	1.11	1.04	0.97	0.90	0.84
15	945	1.80	1.71	1.61	1.53	1.44	1.34	1.28	1.19	1.12	1.04	0.97	0.90	1.69	1.61	1.53	1.46	1.38	1.31	1.24	1.17	1.10	1.03	0.96	0.90
20*	939	1.86	1.77	1.68	1.58	1.50	1.42	1.33	1.25	1.17	1.10	1.02	0.95	1.73	1.65	1.57	1.50	1.42	1.35	1.28	1.21	1.14	1.07	1.00	0.94
50*	911	2.13	2.04	1.94	1.85	1.76	1.67	1.58	1.50	1.42	1.34	1.26	1.19	1.93	1.85	1.77	1.70	1.63	1.55	1.48	1.42	1.35	1.28	1.21	1.27
75*	894	2.28	2.18	2.09	1.99	1.90	1.81	1.72	1.64	1.55	1.47	1.40	1.32	2.04	1.97	1.90	1.82	1.75	1.68	1.61	1.54	1.47	1.40	1.33	1.27
100*	880	2.41	2.31	2.20	2.11	2.02	1.93	1.84	1.75	1.66	1.58	1.50	1.42	2.15	2.07	1.99	1.92	1.85	1.77	1.70	1.63	1.56	1.49	1.43	1.36

* Special high pressure steam unit on request over 15 psig.

AIR DISTRIBUTION CORRECTION FACTORS

TABLE 6

ENT. WATER TEMP. °F		180	200	220	240	260	270	280	290	300	315	345	370	385
STEAM PRESS. PSIG		-	-	-	-	2	5	10	15	20*	30*	50*	75*	100*
ENT. AIR TEMP. °F	40	1.18	1.10	1.03	0.98	0.93	0.91	0.88	0.86	0.84	0.82	0.77	0.74	0.72
	50	1.23	1.14	1.07	1.01	0.96	0.95	0.92	0.89	0.87	0.84	0.80	0.76	0.73
	60	1.29	1.19	1.11	1.05	1.00	0.98	0.94	0.92	0.90	0.87	0.82	0.78	0.75
	70	1.35	1.24	1.15	1.08	1.04	1.02	0.98	0.95	0.93	0.89	0.84	0.80	0.77
	80	1.43	1.30	1.20	1.13	1.08	1.06	1.02	0.99	0.97	0.93	0.87	0.83	0.80

GRAPH 1
AIR DENSITY RATIO

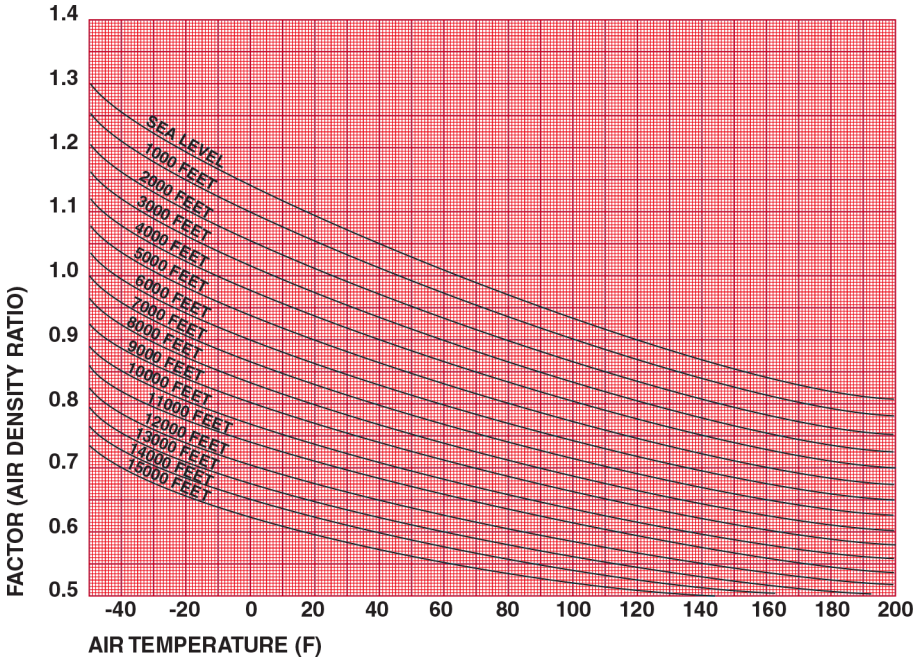


TABLE 7
NOISE LEVEL CLASSES

CLASSES	TYPE OF AREA
1	Movie-theatres — Coliseums — Ballrooms — Banquet rooms — Supervisor's office — Reception rooms — Public libraries — Museums — Court rooms
2	Lobbies — Laboratories — Recreation halls — Waiting rooms — Restaurants — Night clubs — Department stores (upper floors) — Bowling alleys — Gymnasiums — Lounges — General open offices — Drafting rooms
3	Kitchens — Washrooms and toilets — Cafeterias — Department stores (main floors) — Supermarkets — Swimming pools — Garages — Laundries — Foreman's office — Halls and corridors
4	Factories — Mills — Heavy machinery maintenance — Foundries

HOT WATER CAPACITIES
HORIZONTAL PROJECTION

60°F ENTERING AIR TEMPERATURE

TABLE 8

HIGH SPEED

CAT NO.	WATER TEMP. DROP °F	ENTERING WATER TEMPERATURE 180°F MBH	180°F USGPM	180°F WPD	180°F FAT	200°F MBH	200°F USGPM	200°F WPD	200°F FAT	MAXIMUM PROJECTION HEIGHT	MAXIMUM PROJECTION SPREAD	FAN SIZE
H-24 CFM 680 RPM 1550 HP 1/20	15	23.5	3.20	2.70	90	28.4	3.90	3.60	98	9	31	10" Ø
	20	**22.1**	**2.30**	**1.50**	**90**	**27.0**	**2.70**	**2.00**	**96**			
	30	19.3	1.30	0.60	86	24.3	1.70	0.9	93			
	40	16.7	0.90	0.30	83	21.6	1.10	0.40	98			
H-36 CFM 880 RPM 1550 HP 1/20	20	**33.0**	**3.30**	**4.10**	**94**	**39.9**	**4.10**	**5.60**	**102**	9	26	14" Ø
	30	29.7	2.00	1.70	91	36.7	2.50	2.40	98			
	40	26.5	1.40	0.90	88	33.5	1.70	1.30	95			
H-40 CFM 1120 RPM 1550 HP 1/12	20	**37.1**	**3.80**	**5.00**	**90**	**45.0**	**4.60**	**6.90**	**97**	9	32	14" Ø
	30	33.4	2.30	2.10	97	41.3	2.80	3.00	94			
	40	29.8	1.50	1.10	84	37.7	1.90	1.60	91			
H-58 CFM 1435 RPM 1550 HP 1/12	15	52.5	7.00	0.85	93	63.0	8.37	1.17	100	11	30	14" Ø
	20	**46.6**	**4.66**	**0.40**	**90**	**57.7**	**5.77**	**0.58**	**97**			
	25	37.8	3.10	0.19	84	50.4	4.00	0.30	92			
	30					42.0	2.75	0.15	87			
H-60 CFM 1525 RPM 1075 HP 1/6	10	58.8	11.76	2.20	104	70.0	14.00	3.05	102	11	31	16" Ø
	15	54.0	7.20	0.88	93	65.8	8.88	1.29	100			
	20	**48.0**	**4.80**	**0.42**	**89**	**60.2**	**6.02**	**0.64**	**96**			
	30	33.0	2.25	0.10	80	45.5	3.00	0.17	88			
H-82 CFM 1800 RPM 1075 HP 1/6	15	73.8	9.90	1.70	98	84.0	11.25	2.20	103	12	35	16" Ø
	20	**69.6**	**6.96**	**0.89**	**96**	**82.5**	**8.25**	**1.23**	**102**			
	30	54.0	3.50	0.25	88	70.0	4.62	0.42	96			
	40					61.3	3.10	0.16	91			
H-98 CFM 2400 RPM 1100 HP 1/4	15	85.4	11.39	2.22	93	101.5	13.50	3.08	99	13	51	18" Ø
	20	**81.6**	**8.16**	**1.21**	**91**	**98.0**	**9.80**	**1.68**	**98**			
	30	69.0	4.62	0.42	87	87.5	5.88	0.63	94			
	40	52.4	2.65	0.15	80	71.7	3.62	0.26	88			
H-114 CFM 2470 RPM 1075 HP 1/6	15	99.0	13.20	2.13	97	117.2	15.62	2.90	104	13	53	20" Ø
	20	**96.0**	**9.60**	**1.18**	**96**	**114.1**	**11.41**	**1.62**	**103**			
	30	84.0	5.60	0.44	91	103.6	6.90	0.64	99			
	40	70.2	3.50	0.18	86	91.0	4.50	0.30	94			
H-122 CFM 2930 RPM 1075 HP 1/4	15	105.0	14.00	2.37	93	124.3	16.62	3.25	99	14	54	20" Ø
	20	**103.2**	**10.32**	**1.36**	**92**	**121.1**	**12.11**	**1.82**	**98**			
	30	93.0	6.20	0.52	89	114.1	7.62	0.76	96			
	40	78.0	3.95	0.22	85	100.1	5.00	0.36	92			
H-166 CFM 3520 RPM 1100 HP 1/4	15	145.4	19.39	2.55	98	172.9	23.00	3.43	105	14	52	20" Ø
	20	**135.0**	**13.50**	**1.30**	**95**	**164.5**	**16.45**	**1.85**	**103**			
	30	117.0	7.75	0.47	91	145.2	9.70	0.71	98			
	40	99.0	5.00	0.21	86	127.7	6.37	0.33	93			
H-174 CFM 3830 RPM 1100 HP 1/3	15	151.4	20.19	2.80	97	176.7	23.50	3.60	105	14	56	24" Ø
	20	**143.3**	**14.34**	**1.48**	**95**	**173.2**	**17.32**	**2.09**	**102**			
	30	123.0	8.15	0.52	90	154.0	10.25	0.79	97			
	40	104.4	5.25	0.23	85	133.0	6.62	0.35	92			
H-234 CFM 4605 RPM 1100 HP 1/3	20	**195.6**	**19.56**	**2.85**	**99**	**234.5**	**23.45**	**3.95**	**107**	15	58	26" Ø
	30	174.4	11.52	1.09	95	215.2	14.37	1.63	103			
	40	153.0	7.62	0.50	90	192.5	9.62	0.77	99			
H-250 CFM 5000 RPM 1075 HP 1/2	20	**207.0**	**20.70**	**3.15**	**98**	**247.8**	**24.78**	**4.45**	**105**	16	60	26" Ø
	30	183.6	12.25	1.21	94	226.8	15.12	1.83	102			
	40	159.6	8.00	0.55	89	201.2	10.00	0.82	97			
H-400 CFM 6150 RPM 1140 HP 1 1/2*	20	**372.6**	**38.20**	**5.40**	**116**	**448.3**	**46.30**	**7.60**	**127**	16	65	26" Ø
	30	339.2	23.20	3.90	111	415.7	28.60	5.80	122			
	40	306.2	15.60	3.20	106	338.3	19.70	5.10	117			

LOW SPEED

CAT NO.	WATER TEMP. DROP °F	ENTERING WATER TEMPERATURE 180°F MBH	180°F USGPM	180°F WPD	180°F FAT	200°F MBH	200°F USGPM	200°F WPD	200°F FAT	MAXIMUM PROJECTION HEIGHT	MAXIMUM PROJECTION SPREAD
H-18 CFM 460 RPM 1000 HP 1/20	15	19.2	2.60	1.90	98	23.2	3.2	2.6	106	9	19
	20	**18.1**	**1.90**	**1.00**	**96**	**22.1**	**2.3**	**1.4**	**104**		
	30	15.9	1.10	0.40	92	19.9	1.4	0.6	100		
	40	13.8	0.70	0.20	88	17.8	0.9	0.3	96		
H-26 CFM 595 HP 1/20	20	**26.7**	**2.70**	**2.80**	**101**	**32.3**	**3.3**	**3.9**	**110**	9	20
	30	24.1	1.60	1.20	97	29.7	2.0	1.7	106		
	40	21.5	1.10	0.60	94	27.2	1.4	0.9	102		
H-32 CFM 725 HP 1/12	20	**29.8**	**3.10**	**3.40**	**98**	**35.9**	**3.70**	**4.70**	**106**	9	19
	30	26.8	1.80	1.40	94	33.0	2.30	2.00	102		
	40	23.9	1.20	0.70	90	30.2	1.60	1.10	98		
H-44 CFM 925 RPM 1000 HP 1/12	15	40.4	5.39	0.51	100	49.7	6.62	0.75	110	9	19
	20	**34.6**	**3.46**	**0.21**	**95**	**44.1**	**4.41**	**0.36**	**104**		
	30	27.0	2.12	0.09	87	38.1	3.00	0.28	98		
	40					29.7	2.00	0.08	90		
H-50 CFM 1250 RPM 820 HP 1/6	10	50.2	10.40	0.43	97	61.7	12.70	0.52	106	10	24
	15	45.5	6.20	0.19	94	56.5	7.80	0.23	102		
	20	**40.6**	**4.20**	**0.12**	**90**	**51.6**	**5.30**	**0.15**	**98**		
	30					42.5	2.90	0.03	91		
H-70 CFM 1475 RPM 820 HP 1/6	15	61.7	8.40	0.24	99	75.9	10.40	0.38	107	11	27
	20	**56.0**	**5.70**	**0.15**	**95**	**70.3**	**7.20**	**0.22**	**104**		
	30	45.4	3.10	0.07	88	59.6	4.10	0.19	97		
	40					62.5	3.20	0.12	99		
H-80 CFM 1685 RPM 820 HP 1/4	15	72.0	9.62	1.61	99	82.3	11.00	2.10	105	13	27
	20	**66.0**	**6.60**	**0.82**	**96**	**80.5**	**8.05**	**1.20**	**104**		
	30	51.0	3.37	0.23	88	66.5	4.37	0.37	96		
	40					52.5	2.62	0.15	89		
H-96 CFM 2025 RPM 820 HP 1/6	15	84.3	11.50	0.34	98	103.3	14.20	0.53	107	13	39
	20	**77.2**	**7.90**	**0.22**	**95**	**96.2**	**9.90**	**0.31**	**104**		
	30	63.7	4.30	0.11	89	82.7	5.70	0.15	98		
	40					70.0	3.60	0.07	92		
H-102 CFM 2060 RPM 820 HP 1/4	15	90.0	12.00	1.80	100	105.0	14.00	2.37	107	14	47
	20	**85.4**	**8.54**	**0.95**	**98**	**103.2**	**10.32**	**1.87**	**106**		
	30	72.0	4.75	0.32	92	91.7	6.12	0.52	101		
	40	52.4	2.65	0.11	83	75.3	3.75	0.21	94		
H-136 CFM 2470 RPM 850 HP 1/4	15	120.0	16.00	1.80	105	145.2	19.37	2.55	114	14	44
	20	**111.0**	**11.10**	**0.91**	**102**	**135.5**	**13.55**	**1.31**	**111**		
	30	92.4	6.15	0.41	95	117.8	7.85	0.47	104		
	40	70.9	3.50	0.11	86	98.0	4.88	0.20	96		
H-144 CFM 2690 RPM 820 HP 1/3	15	125.2	16.70	1.95	103	152.3	20.00	2.80	112	14	45
	20	**117.0**	**11.70**	**0.98**	**100**	**143.5**	**14.35**	**1.45**	**109**		
	30	93.3	6.50	0.34	92	122.5	8.25	0.53	102		
	40	78.0	3.88	0.13	87	103.2	5.15	0.22	95		
H-194 CFM 3235 HP 1/3	20	**162.0**	**16.20**	**2.05**	**106**	**193.2**	**19.32**	**2.85**	**115**	15	51
	30	138.0	9.15	0.70	99	173.3	11.55	1.08	110		
	40										

For MBH at EWT other than those indicated in the tables, use 200°F MBH and multiply by factor in table 10. MBH obtained will be at **USGPM of 200°F MBH** used.

UNIT HEATERS

HOT WATER CAPACITIES
HORIZONTAL PROJECTION

TABLE 8

60°F ENTERING AIR TEMPERATURE

HIGH SPEED

CAT NO.	WATER TEMP. DROP °F	ENTERING WATER TEMPERATURE 220°F MBH	220°F USGPM	220°F WPD	220°F FAT	240°F MBH	240°F USGPM	240°F WPD	240°F FAT	MAXIMUM PROJECTION HEIGHT	MAXIMUM PROJECTION SPREAD	FAN SIZE
H-24 CFM 680 RPM 1550 HP 1/20	20	**31.9**	**3.30**	**2.70**	**103**	**36.7**	**3.70**	**3.40**	**110**	9	31	10" Ø
	30	29.2	2.00	1.20	100	34.2	2.40	1.50	106			
	40	26.6	1.40	0.60	96	31.6	1.60	0.80	103			
H-36 CFM 880 RPM 1550 HP 1/20	20	**46.7**	**4.90**	**7.30**	**109**	**53.6**	**5.60**	**9.20**	**116**	9	26	14" Ø
	30	43.5	3.00	3.30	106	50.5	3.50	4.20	113			
	40	40.5	2.10	1.80	102	47.4	2.50	2.30	110			
H-40 CFM 1120 RPM 1550 HP 1/12	20	**52.8**	**5.50**	**9.00**	**103**	**60.5**	**6.30**	**11.3**	**110**	9	32	14" Ø
	30	49.1	3.40	4.00	100	57.0	4.00	5.10	107			
	40	45.6"	2.40	2.20	97	53.5	2.80	2.80	104			
H-58 CFM 1435 RPM 1550 HP 1/12	10	75.2	15.00	3.45	108	88.2	17.50	4.60	117	11	30	14" Ø
	15	73.6	9.75	1.55	107	80.1	10.68	1.81	112			
	20	**70.0**	**7.00**	**0.84**	**105**	**78.7**	**7.87**	**1.03**	**111**			
	25	64.0	5.12	0.47	101	74.7	6.05	0.66	108			
	30	56.0	3.75	0.25	96	69.8	4.66	0.39	105			
H-60 CFM 1525 RPM 1075 HP 1/6	10	84.4	16.00	3.85	111	92.2	18.35	5.00	116	11	31	16" Ø
	15	76.0	10.10	1.70	106	88.2	11.76	2.17	113			
	20	**72.0**	**7.20**	**0.88**	**104**	**83.7**	**8.37**	**1.16**	**111**			
	30	61.6	4.00	0.30	97	72.0	4.80	0.42	103			
	40	44.0	2.25	0.10	87	56.3	2.88	0.16	94			
H-82 CFM 1800 RPM 1075 HP 1/6	10	100.0	13.25	3.00	111	119.2	16.00	4.22	121	12	35	16" Ø
	15	**98.4**	**9.84**	**1.70**	**110**	**116.0**	**11.60**	**4.00**	**119**			
	20	85.9	5.75	0.62	104	104.4	6.96	0.89	114			
	30	72.0"	3.50	0.25	97	87.8	4.30	0.37	105			
	40											
H-98 CFM 2400 RPM 1100 HP 1/4	15	116.0	15.25	3.88	105	**128.2**	**12.82**	**2.79**	**109**	13	51	18" Ø
	20	**113.9**	**11.39**	**2.22**	**104**	122.4	8.16	1.21	107			
	30	140.8	7.05	0.93	104	116.0	5.62	0.60	104			
	40	92.0	4.62	0.42	95							
H-114 CFM 2470 RPM 1075 HP 1/6	15	137.6	18.00	3.80	111	**149.9**	**14.94**	**2.68**	**116**	13	53	20" Ø
	20	**132.0**	**13.20**	**2.13**	**109**	144.0	9.60	1.18	114			
	30	124.5	8.37	0.92	107	132.7	6.62	0.59	110			
	40	112.0	5.60	0.44	102							
H-122 CFM 2930 RPM 1075 HP 1/4	15	143.2	18.75	4.00	105	**159.3**	**15.93**	**3.00**	**110**	14	54	20" Ø
	20	**140.0**	**14.00**	**2.37**	**104**	154.8	10.32	1.36	109			
	30	135.2	9.05	1.07	103	146.2	7.37	0.72	106			
	40	124.0	6.20	0.52	99							
H-166 CFM 3520 RPM 1100 HP 1/4	15	**193.9**	**19.39**	**2.55**	**111**	**222.7**	**22.27**	**3.30**	**118**	14	52	20" Ø
	20	175.2	11.75	0.98	106	202.5	13.50	1.30	113			
	30	156.0	7.75	0.47	101	184.5	9.25	0.65	108			
	40											
H-174 CFM 3830 RPM 1100 HP 1/3	15	**201.9**	**20.19**	**2.80**	**109**	**229.5**	**22.95**	**3.35**	**115**	14	56	24" Ø
	20	185.6	12.50	1.15	105	215.1	14.34	1.48	112			
	30	164.0	8.15	0.52	100	195.8	9.88	0.72	107			
	40											
H-234 CFM 4605 RPM 1100 HP 1/3	20	**272.0**	**27.20**	**5.20**	**115**	**306.0**	**30.60**	**6.40**	**121**	15	58	26" Ø
	30	256.0	17.12	2.25	111	293.4	19.56	2.85	119			
	40	232.8	11.52	1.09	107	274.5	13.80	1.48	115			
H-250 CFM 5000 RPM 1075 HP 1/2	20	**286.1**	**28.61**	**5.70**	**113**	**324.0**	**32.40**	**7.15**	**120**	16	60	26" Ø
	30	269.6	18.00	2.45	110	310.5	20.70	3.15	117			
	40	244.8	12.25	1.21	105	288.0	14.50	1.65	113			
H-400 CFM 6150 RPM 1140 HP 1 1/2*	20	**524.0**	**52.40**	**10.1**	**138**	**599.5**	**59.9**	**13.0**	**150**	16	65	26" Ø
	30	492.1	32.80	8.10	133	568.2	37.8	5.60	145			
	40	460.3	23.01	4.10	129	537.1	26.8	4.52	140			

LOW SPEED

CAT NO.	WATER TEMP. DROP °F	ENTERING WATER TEMPERATURE 220°F MBH	220°F USGPM	220°F WPD	220°F FAT	240°F MBH	240°F USGPM	240°F WPD	240°F FAT	MAXIMUM PROJECTION HEIGHT	MAXIMUM PROJECTION SPREAD
H-18 CFM 460 RPM 1000 HP 1/20	20	**26.1**	**2.70**	**1.90**	**112**	**29.9**	**3.00**	**2.40**	**120**	9	19
	30	23.9	1.70	0.80	108	27.9	1.90	1.10	116		
	40	21.8	1.10	0.40	104	25.9	1.30	0.60	112		
H-26 CFM 595 RPM 1000 HP 1/200	20	**37.8**	**3.90**	**5.10**	**119**	**43.3**	**4.50**	**6.40**	**127**	9	20
	30	35.3	2.40	2.30	115	40.9	2.80	2.90	123		
	40	32.8	1.70	1.20	111	38.4	2.00	1.60	119		
H-32 CFM 725 RPM 1000 HP 1/12	20	**42.1**	**4.40**	**6.10**	**113**	**48.3**	**5.00**	**7.70**	**121**	9	19
	30	39.3	2.70	2.70	110	45.5	3.20	3.50	118		
	40	36.5	1.90	1.50	106	42.8	2.20	1.90	114		
H-44 CFM 925 RPM 1000 HP 1/12	10	65.9	13.12	2.75	126	74.7	15.00	3.45	135	9	19
	15	60.0	8.00	1.10	120	68.4	9.12	1.38	128		
	20	**53.9**	**5.39**	**0.51**	**114**	**63.9**	**6.39**	**0.70**	**124**		
	25	48.0	3.88	0.26	108	58.5	4.70	0.40	118		
	30	41.9	2.85	0.16	102	51.8	3.46	0.23	112		
H-50 CFM 1250 RPM 820 HP 1/6	10	72.8	15.10	0.74	114	83.9	17.40	0.96	122	10	24
	15	67.7	9.30	0.31	110	79.0	10.90	0.43	118		
	20	**62.9**	**6.50**	**0.22**	**107**	**74.3**	**7.70**	**0.25**	**115**		
	30	53.8	3.70	0.11	100	65.4	4.50	0.13	108		
	40	51.2	2.60	0.07	98	56.9	2.90	0.09	102		
H-70 CFM 1475 RPM 820 HP 1/6	10	96.0	19.90	1.02	120	110.3	22.90	1.23	129	11	27
	15	90.2	12.40	0.49	116	104.7	14.50	0.52	126		
	20	**84.7**	**8.80**	**0.24**	**113**	**99.3**	**10.30**	**0.31**	**122**		
	30	74.2	5.10	0.12	106	89.0	6.10	0.15	116		
	40	64.2	3.30	0.06	100	79.1	4.10	0.11	109		
H-80 CFM 1685 RPM 820 HP 1/4	15	97.9	13.00	2.85	114	116.1	15.75	4.10	124	13	27
	20	**96.2**	**9.62**	**1.61**	**113**	**112.5**	**15.00**	**3.80**	**122**		
	30	84.0	5.62	0.60	106	99.0	6.60	0.82	114		
	40	68.0	3.37	0.23	97	85.5	4.30	0.37	107		
H-96 CFM 2025 RPM 820 HP 1/6	15	122.5	16.90	0.62	116	141.7	19.60	0.84	125	13	39
	20	**115.5**	**11.90**	**0.35**	**113**	**134.9**	**14.00**	**0.42**	**121**		
	30	102.2	7.00	0.15	106	121.9	8.40	0.24	116		
	40	89.5	4.60	0.07	101	109.3	5.70	0.12	110		
H-102 CFM 2060 RPM 820 HP 1/4	15	121.9	16.00	3.00	115	**135.0**	**13.50**	**2.24**	**121**	14	47
	20	**120.0**	**12.00**	**1.00**	**114**	128.2	8.54	0.95	118		
	30	110.4	7.40	0.73	109	117.0	5.88	0.58	113		
	40	96.0	4.75	0.32	103						
H-136 CFM 2470 RPM 850 HP 1/4	15	169.9	22.50	3.35	124	**185.0**	**18.50**	**2.35**	**129**	14	44
	20	**160.0**	**16.00**	**1.80**	**120**	166.5	11.10	0.91	122		
	30	142.1	9.50	0.69	113	146.7	7.35	0.43	115		
	40	123.2	6.15	0.41	106						
H-144 CFM 2690 RPM 820 HP 1/3	15	176.0	23.37	3.60	120	**192.5**	**19.25**	**2.55**	**126**	14	45
	20	**167.0**	**16.70**	**1.95**	**117**	175.5	11.70	0.98	120		
	30	149.6	10.00	0.75	111	155.2	7.75	0.47	113		
	40	124.4	6.50	0.34	103						
H-194 CFM 3235 HP 1/3	20	**224.0**	**22.40**	**3.65**	**124**	**252.0**	**25.20**	**4.55**	**132**	15	51
	30	208.0	14.00	1.56	119	243.0	16.20	2.05	129		
	40	184.0	9.15	0.70	113	220.5	11.12	1.02	123		

For MBH at EWT other than those indicated in the tables, use 200°F MBH and multiply by factor in table 10. MBH obtained will be at **USGPM of 200°F MBH** used.

* No cone diffuser (standard unit).

HOT WATER CAPACITIES
VERTICAL PROJECTION

TABLE 9

60°F ENTERING AIR TEMPERATURE

HIGH SPEED

CAT NO.	WATER TEMP. DROP °F	ENTERING WATER TEMPERATURE 180°F MBH	180°F USGPM	180°F WPD	180°F FAT	200°F MBH	200°F USGPM	200°F WPD	200°F FAT	MAXIMUM PROJECTION HEIGHT	MAXIMUM PROJECTION SPREAD	FAN SIZE
V-40 CFM 750 RPM 1550 HP 1/30	10	39.4	8.00	1.00	109	47.2	9.50	1.40	118	12	28	12" Ø
	15	34.8	4.75	0.38	103	42.7	5.70	0.54	113			
	20	**32.5**	**3.25**	**0.19**	**100**	**39.9**	**3.99**	**0.28**	**109**			
	25	27.0	2.25	0.10	93	34.3	2.75	0.14	102			
	30	24.0	1.65	0.05	90	30.1	2.00	0.08	97			
V-48 CFM 1150 RPM 1550 HP 1/12	10	43.4	9.00	1.20	95	53.2	10.50	1.70	103	14	35	14" Ø
	15	43.2	5.90	0.56	94	50.7	6.70	0.70	101			
	20	**40.0**	**4.00**	**0.28**	**92**	**49.0**	**4.90**	**0.40**	**99**			
	25	37.2	3.00	0.17	90	45.5	3.70	0.24	97			
	30	34.2	2.30	0.10	87	42.0	2.75	0.14	94			
	40	32.0	1.60	0.07	85	40.9	2.10	0.09	93			
V-66 CFM 1500 RPM 1725 HP 1/4	10	60.0	12.00	2.10	97	71.7	14.25	3.00	104	15	46	14" Ø
	15	54.0	7.25	0.85	93	64.7	8.50	1.20	100			
	20	**47.5**	**4.75**	**0.38**	**89**	**58.8**	**5.88**	**0.56**	**96**			
	30	39.0	2.70	0.14	84	47.3	3.20	0.19	89			
	40	33.0	1.75	0.06	80	40.3	2.00	0.08	85			
V-84 CFM 1435 RPM 1100 HP 1/6	10	76.4	15.40	2.10	99	91.3	18.25	2.90	107	18	58	16" Ø
	15	72.0	9.70	0.85	97	85.7	11.25	1.10	104			
	20	**67.5**	**6.75**	**0.42**	**95**	**82.0**	**8.20**	**0.62**	**102**			
	30	58.6	4.00	0.16	90	71.7	4.75	0.22	97			
	40	54.0	2.50	0.06	87	63.0	3.05	0.10	92			
V-96 CFM 2425 RPM 1725 HP 1/4	10	90.9	18.25	2.50	95	108.5	21.50	4.00	101	18	58	16" Ø
	15	85.2	11.30	1.15	92	100.8	13.25	1.30	98			
	20	**82.0**	**8.20**	**0.63**	**91**	**95.2**	**9.52**	**0.70**	**96**			
	30	72.0	4.75	0.21	87	87.2	5.90	0.34	93			
	40	63.0	3.25	0.10	84	77.0	3.80	0.14	89			
V-106 CFM 2400 RPM 1075 HP 1/4	10	108.2	22.30	2.60	102	129.5	26.70	3.50	110	20	55	18" Ø
	15	102.7	14.00	1.20	99	123.5	17.00	1.60	108			
	20	**96.8**	**9.90**	**0.65**	**97**	**117.8**	**12.10**	**0.90**	**105**			
	30	85.6	5.80	0.32	93	106.7	7.30	0.38	101			
	40	74.6	3.80	0.09	89	95.7	4.90	0.20	97			
V-130 CFM 3200 RPM 1075 HP 1/4	10	117.5	23.50	5.40	94	138.3	27.70	7.00	100	18	60	18" Ø
	15	109.4	14.60	2.00	92	131.2	17.25	2.70	98			
	20	**103.0**	**10.30**	**1.00**	**90**	**124.5**	**12.45**	**1.50**	**96**			
	30	89.4	6.00	0.38	86	110.3	7.30	0.54	92			
	40	75.0	3.75	0.15	82	95.9	4.75	0.23	88			
V-140 CFM 3660 RPM 1100 HP 3/4	15	129.0	19.25	2.20	93	152.6	20.20	2.50	99	20	55	20" Ø
	20	**123.0**	**12.30**	**1.00**	**91**	**147.5**	**14.75**	**1.40**	**97**			
	25	115.8	9.40	0.58	89	141.7	11.50	0.85	96			
	30	108.0	7.25	0.35	87	133.0	8.85	0.50	94			
	40	93.0	4.70	0.15	84	117.2	5.75	0.22	90			
V-180 CFM 3200 RPM 1100 HP 3/4	15	148.2	19.75	2.80	103	173.2	22.75	3.60	110	14	31	20" Ø
	20	**145.0**	**14.50**	**1.50**	**102**	**170.0**	**17.00**	**2.10**	**109**			
	25	141.0	11.25	0.95	101	168.0	13.50	1.35	109			
	30	133.4	9.00	0.60	99	162.7	10.75	0.85	107			
	40	114.0	5.75	0.25	93	144.9	7.25	0.42	102			
V-200 CFM 4250 RPM 1100 HP 3/4	15	171.0	22.75	3.60	97	203.0	26.75	5.00	104	18	35	24" Ø
	20	**165.0**	**16.50**	**2.00**	**96**	**195.0**	**19.50**	**2.60**	**102**			
	25	**159.0**	**12.80**	**1.20**	**95**	**189.0**	**15.25**	**1.70**	**101**			
	30	154.5	10.25	0.80	94	185.5	12.25	1.10	100			
	40	138.0	7.00	0.38	90	171.5	8.50	0.54	97			
V-252 CFM 6000 RPM 1075 HP 1	**20**	**200.0**	**20.00**	**2.80**	**91**	**238.0**	**23.80**	**3.80**	**96**	26	69	24" Ø
	25	192.0	16.00	1.80	89	232.7	18.75	2.50	96			
	30	190.6	12.75	1.20	89	228.2	15.25	1.60	95			
	40	175.4	8.75	0.56	87	215.0	10.75	0.85	93			
V-370 CFM 7600 RPM 1075 HP 1	**20**	**294.0**	**29.40**	**3.60**	**96**	**350.0**	**35.00**	**5.20**	**103**	35	68	30" Ø
	25	282.0	22.50	2.00	94	340.2	27.50	3.20	101			
	30	265.4	17.75	1.40	92	325.5	21.75	2.00	100			
	40	238.6	12.00	0.65	89	294.0	14.60	0.95	96			
V-520 CFM 11100 RPM 1100 HP 12	**20**	**420.0**	**42.00**	**5.00**	**95**	**511.0**	**51.10**	**7.50**	**103**	45	85	30" Ø
	25	396.0	31.50	3.00	93	485.1	39.50	4.50	101			
	30	358.6	24.50	1.70	90	456.7	30.50	2.80	98			
	40	319.4	16.00	0.65	87	408.8	20.40	1.20	94			

LOW SPEED

CAT NO.	WATER TEMP. DROP °F	ENTERING WATER TEMPERATURE 180°F MBH	180°F USGPM	180°F WPD	180°F FAT	200°F MBH	200°F USGPM	200°F WPD	200°F FAT	MAXIMUM PROJECTION HEIGHT	MAXIMUM PROJECTION SPREAD
V-30 CFM 510 RPM 1000 HP 1/30	10	33.0	6.65	0.52	120	40.0	7.80	0.95	132	12	22
	15	27.6	3.75	0.25	110	34.3	4.50	0.35	122		
	20	**23.0**	**2.30**	**0.10**	**102**	**29.4**	**2.94**	**0.16**	**113**		
	25	18.0	1.50	0.05	93	24.5	2.00	0.08	104		
	30	16.4	1.00	0.02	90	21.0	1.30	0.04	98		
V-38 CFM 780 RPM 1000 HP 1/12	10	36.6	7.45	0.85	103	43.4	8.55	1.10	111	12	29
	15	33.6	4.55	0.35	100	40.3	5.25	0.65	108		
	20	**32.5**	**3.25**	**0.19**	**98**	**38.8**	**3.88**	**0.26**	**106**		
	25	27.0	2.25	0.09	92	34.3	2.75	0.14	100		
	30	24.0	1.65	0.06	88	30.1	2.00	0.08	96		
	40										
V-50 CFM 955 RPM 1075 HP 1/4	10	48.0	9.50	1.40	**106**	57.4	11.40	2.05	115	14	40
	15	42.0	5.50	0.70	**100**	50.7	6.75	0.73	108		
	20	**36.0**	**3.60**	**0.23**	**94**	**48.8**	**4.88**	**0.40**	**107**		
	30	31.4	2.50	0.12	90	33.6	2.40	0.11	92		
	40	24.0	1.20	0.03	83	31.5	1.50	0.05	90		
V-70 CFM 1340 RPM 820 HP 1/6	10	66.0	13.25	1.50	106	78.7	15.70	2.10	114	15	35
	15	61.4	8.25	0.60	102	73.5	9.85	1.90	111		
	20	**57.5**	**5.75**	**0.30**	**100**	**70.0**	**7.00**	**0.45**	**108**		
	30	48.0	3.25	0.10	93	59.5	4.00	0.16	101		
	40	42.0	2.00	0.04	89	52.5	2.55	0.07	96		
V-80 CFM 1545 RPM 1075 HP 1/4	10	73.2	14.60	1.90	103	86.8	17.25	2.60	111	17	54
	15	69.0	9.25	0.80	101	81.9	10.75	1.10	108		
	20	**65.0**	**6.50**	**0.40**	**98**	**79.0**	**7.90**	**0.58**	**107**		
	30	54.0	3.60	0.13	92	68.3	4.50	0.20	100		
	40	49.2	2.50	0.06	89	59.5	3.00	0.09	95		
V-90 CFM 1790 RPM 850 HP 1/4	10	84.0	16.90	2.60	103	100.0	20.00	3.70	112	17	44
	15	79.2	10.60	1.10	101	94.5	12.45	1.50	109		
	20	**70.0**	**7.00**	**0.50**	**96**	**87.5**	**8.75**	**0.75**	**105**		
	30	54.0	3.70	0.15	88	68.3	4.50	0.21	95		
	40	42.0	2.20	0.06	81	54.6	2.75	0.09	88		
V-108 CFM 2380 RPM 850 HP 1/4	10	108.2	22.20	2.60	102	128.9	26.60	3.50	110	15	46
	15	102.2	14.00	1.20	100	123.0	16.90	1.60	108		
	20	**96.4**	**9.90**	**0.65**	**97**	**117.3**	**12.10**	**0.90**	**105**		
	30	85.2	5.80	0.32	93	106.2	7.30	0.38	101		
	40	74.3	3.80	0.09	89	95.3	4.90	0.23	97		
V-124 CFM 2730 RPM 820 HP 3/4	10	109.4	14.60	1.35	97	129.5	17.00	1.80	103	17	44
	15	104.0	10.40	0.70	95	124.5	12.45	1.00	102		
	20	**94.8**	**7.75**	**0.40**	**92**	**119.0**	**9.50**	**0.60**	**100**		
	30	87.0	6.00	0.25	89	110.3	7.30	0.36	97		
	40	73.4	3.75	0.10	85	95.9	4.75	0.15	92		
V-144 CFM 2380 RPM 820 HP 3/4	10	127.2	17.00	2.10	111	148.7	19.75	2.80	119	12	31
	15	123.6	12.36	1.15	109	145.2	14.52	1.50	118		
	20	**114.0**	**9.25**	**0.65**	**105**	**138.6**	**11.25**	**0.95**	**115**		
	30	105.0	7.10	0.40	102	130.2	8.70	0.58	112		
	40	88.4	4.50	0.16	95	112.7	5.60	0.24	105		
V-170 CFM 3160 RPM 820 HP 3/4	15	145.4	19.30	2.60	102	172.2	22.75	3.60	110	18	31
	20	**140.0**	**14.00**	**1.45**	**101**	**167.5**	**16.75**	**2.10**	**109**		
	25	135.0	10.75	0.85	99	161.0	13.00	1.30	107		
	30	127.2	8.50	0.55	97	155.4	10.25	0.80	105		
	40	110.4	5.50	0.24	92	145.2	7.25	0.40	102		
V-204 CFM 4470 RPM 820 HP 1	**20**	**171.0**	**17.10**	**2.10**	**96**	**202.5**	**20.25**	**2.70**	**103**	22	45
	25	166.6	13.50	1.30	95	197.7	16.00	1.80	102		
	30	160.4	10.75	0.85	94	192.5	12.75	1.20	101		
	40	150.0	7.50	0.42	92	178.5	8.80	0.44	98		
V-300 CFM 5660 RPM 820 HP 1	**20**	**247.5**	**24.75**	**2.60**	**101**	**297.5**	**29.75**	**4.00**	**110**	25	51
	25	232.4	18.75	1.50	99	285.2	23.00	2.30	108		
	30	219.0	14.60	0.95	97	267.7	17.85	1.40	105		
	40	196.4	9.90	0.42	93	241.5	12.00	0.62	100		

For MBH at EWT other than those indicated in the tables, use 200°F MBH and multiply by factor in table 10. MBH obtained will be at **USGPM of 200°F MBH** used.

* No cone diffuser (standard unit).

UNIT HEATERS

HOT WATER CAPACITIES
HORIZONTAL PROJECTION

TABLE 9

60°F ENTERING AIR TEMPERATURE

HIGH SPEED

CAT NO.	WATER TEMP. DROP °F	ENTERING WATER TEMPERATURE 220°F MBH	220°F USGPM	220°F WPD	220°F FAT	240°F MBH	240°F USGPM	240°F WPD	240°F FAT	MAXIMUM PROJECTION HEIGHT	MAXIMUM PROJECTION SPREAD	FAN SIZE
V-40 CFM 750 RPM 1550 HP 1/30	10	54.1	10.00	1.50	127	63.0	11.50	2.80	137	12	28	12" Ø
	15	52.8	6.75	0.65	125	60.0	8.00	1.00	134			
	20	**47.5**	**4.75**	**0.38**	**118**	**55.0**	**5.50**	**0.70**	**128**			
	25	41.9	3.30	0.20	112	52.5	4.00	0.28	124			
	30	37.9	2.50	0.12	107	49.0	3.25	0.19	120			
V-48 CFM 1150 RPM 1550 HP 1/12	10	62.1	11.00	1.80	110	70.2	12.60	2.30	116	14	35	14" Ø
	15	60.0	7.75	0.95	108	67.5	9.00	1.20	114			
	20	**59.0**	**5.90**	**0.80**	**107**	**65.0**	**6.50**	**0.70**	**112**			
	25	53.9	4.25	0.32	103	63.0	5.00	0.42	110			
	30	52.0	3.50	0.22	102	60.0	4.00	0.28	108			
	40	45.6	2.30	0.10	97	54.0	2.75	0.15	103			
V-66 CFM 1500 RPM 1725 HP 1/4	10	81.9	15.00	3.20	110	96.3	17.30	4.20	119	15	46	14" Ø
	15	78.1	10.25	1.60	108	90.0	12.00	2.10	115			
	20	**72.5**	**7.25**	**0.85**	**105**	**82.5**	**8.25**	**1.00**	**111**			
	30	58.4	4.00	0.28	96	71.2	4.75	0.38	104			
	40	52.0	2.70	0.14	92	61.2	3.10	0.19	97			
V-84 CFM 1435 RPM 1100 HP 1/6	10	105.9	19.15	3.00	114	121.5	22.00	4.20	122	18	58	16" Ø
	15	100.0	13.25	1.50	111	115.5	15.40	2.10	120			
	20	**97.0**	**9.70**	**0.85**	**110**	**110.0**	**11.00**	**1.20**	**117**			
	30	85.9	5.75	0.32	104	101.2	6.75	0.42	112			
	40	78.1	4.00	0.16	100	92.2	4.65	0.21	107			
V-96 CFM 2425 RPM 1725 HP 1/4	10	125.6	22.60	4.20	108	144.0	26.00	5.40	116	18	58	16" Ø
	15	118.4	15.70	2.20	105	136.9	18.25	2.50	112			
	20	**113.0**	**11.30**	**1.15**	**103**	**130.0**	**13.00**	**1.50**	**110**			
	30	104.0	7.00	0.45	100	123.0	8.20	0.63	107			
	40	96.0	4.75	0.21	97	112.5	5.75	0.32	103			
V-106 CFM 2400 RPM 1075 HP 1/4	10	134.4	24.40	5.40	112	153.9	28.00	7.00	120	20	55	18" Ø
	15	129.9	17.25	2.80	110	150.0	20.00	3.80	118			
	20	**125.0**	**12.50**	**1.50**	**108**	**141.0**	**14.10**	**1.90**	**114**			
	30	108.8	7.25	0.54	102	131.2	8.75	0.75	111			
	40	89.9	4.50	0.22	95	110.2	5.50	0.30	102			
V-130 CFM 3200 RPM 1075 HP 1/4	10	159.2	28.75	7.10	106	180.9	33.00	9.50	112	18	60	18" Ø
	15	153.9	20.30	3.70	105	176.2	23.50	5.40	111			
	20	**146.0**	**14.60**	**2.00**	**102**	**167.5**	**16.75**	**2.60**	**108**			
	30	132.0	8.75	0.75	98	154.5	10.30	1.00	105			
	40	119.2	6.00	0.38	94	141.8	6.10	0.40	101			
V-140 CFM 3660 RPM 1100 HP 3/4	15	180.0	23.50	3.60	106	203.4	27.00	4.40	111	20	55	20" Ø
	20	**172.5**	**17.25**	**1.90**	**104**	**196.2**	**19.62**	**2.40**	**110**			
	25	165.6	13.25	1.10	102	191.2	15.25	1.50	108			
	30	160.0	10.75	0.75	100	184.5	12.30	1.00	107			
	40	144.0	7.25	0.34	96	171.0	8.50	0.48	103			
V-180 CFM 3200 RPM 1100 HP 3/4	15	200.0	26.50	5.00	118	229.5	30.50	6.00	126	14	31	20" Ø
	20	**197.5**	**19.75**	**2.80**	**117**	**220.0**	**22.00**	**3.40**	**124**			
	25	193.9	15.50	1.70	116	218.5	17.50	2.20	123			
	30	190.4	12.75	1.20	115	217.5	14.50	1.50	122			
	40	177.9	9.00	0.60	111	207.0	10.50	0.85	120			
V-200 CFM 4250 RPM 1100 HP 3/4	15	236.0	31.50	6.50	111					18	35	24" Ø
	20	**227.5**	**22.75**	**3.60**	**110**	**260.0**	**26.00**	**5.00**	**117**			
	25	220.0	17.70	2.20	108	252.0	20.25	3.00	115			
	30	216.0	14.50	1.50	107	247.5	16.50	2.00	114			
	40	206.0	10.25	0.80	105	237.6	12.00	1.10	112			
V-252 CFM 6000 RPM 1075 HP 1	**20**	**275.0**	**27.50**	**5.40**	**102**	**315.0**	**31.50**	**7.00**	**108**	26	69	24" Ø
	25	269.9	21.55	3.40	101	307.8	24.60	4.20	107			
	30	264.0	17.70	2.30	100	300.0	20.00	2.80	106			
	40	254.1	12.75	1.20	99	292.5	14.75	1.50	105			
V-370 CFM 7600 RPM 1075 HP 1	**20**	**402.5**	**40.25**	**6.50**	**109**					35	68	30" Ø
	25	396.0	31.70	4.60	108	468.0	36.00	5.80	117			
	30	385.6	25.70	2.90	107	441.0	29.40	3.60	114			
	40	353.9	17.75	1.40	103	415.8	16.75	1.30	111			
V-520 CFM 11100 RPM 1100 HP 12	**20**	**602.5**	**60.25**	**10.50**	**111**					45	85	30" Ø
	25	572.0	46.00	6.00	108	661.5	53.00	8.00	116			
	30	544.0	36.15	3.80	106	630.0	42.00	5.00	113			
	40	478.1	24.50	1.70	100	580.5	29.10	2.50	109			

LOW SPEED

CAT NO.	WATER TEMP. DROP °F	ENTERING WATER TEMPERATURE 220°F MBH	220°F USGPM	220°F WPD	220°F FAT	220°F MBH	220°F USGPM	220°F WPD	220°F FAT	MAXIMUM PROJECTION HEIGHT	MAXIMUM PROJECTION SPREAD	FAN SIZE
V-30 CFM 510 RPM 1000 HP 1/30	10	45.6	8.25	1.05	143	57.6	9.50	1.40	164	12	22	12" Ø
	15	41.9	5.50	0.50	136	49.9	6.65	0.52	150			
	20	**37.5**	**3.75**	**0.25**	**128**	**44.0**	**4.40**	**0.34**	**140**			
	25	30.4	2.40	0.10	115	38.2	3.00	0.17	129			
	30	27.2	1.75	0.06	109	34.5	2.30	0.10	123			
V-38 CFM 780 RPM 1000 HP 1/12	10	49.9	9.00	1.30	119	57.6	10.25	1.60	128	12	29	14" Ø
	15	48.0	6.25	0.62	117	55.9	7.45	0.85	126			
	20	**45.5**	**4.55**	**0.36**	**114**	**51.5**	**5.15**	**0.48**	**121**			
	25	41.9	3.30	0.20	109	49.5	4.00	0.28	119			
	30	37.9	2.50	0.15	105	48.7	3.25	0.19	118			
	40	32.0	1.65	0.06	98	39.6	2.00	0.08	107			
V-50 CFM 955 RPM 1075 HP 1/4	10	42.0	5.50	0.70	100	50.7	6.75	0.73	108	14	40	14" Ø
	15	61.6	8.00	1.00	119	72.0	9.50	1.40	129			
	20	**55.0**	**5.50**	**0.70**	**113**	**67.0**	**6.70**	**0.70**	**124**			
	30	44.0	3.10	0.18	102	54.0	3.60	0.23	112			
	40	41.9	2.50	0.12	100	46.8	2.25	0.10	105			
V-70 CFM 1340 RPM 820 HP 1/6	10	89.9	16.25	2.20	122	103.5	18.75	3.00	131	15	35	16" Ø
	15	85.9	11.40	1.15	119	99.4	13.25	1.50	127			
	20	**82.5**	**8.25**	**0.60**	**117**	**94.5**	**9.45**	**0.80**	**125**			
	30	72.0	4.80	0.22	110	86.2	5.75	0.30	119			
	40	64.0	3.25	0.10	104	76.5	3.80	0.14	113			
V-80 CFM 1545 RPM 1075 HP 1/4	10	100.0	18.25	2.50	2.50	114.6	21.00	3.80	128	17	54	16" Ø
	15	96.0	12.70	1.40	1.40	109.8	14.60	1.90	125			
	20	**92.0**	**9.25**	**0.80**	**0.80**	**105.0**	**10.50**	**1.00**	**122**			
	30	81.9	5.50	0.30	0.30	97.5	6.50	0.40	118			
	40	72.0	3.60	0.13	0.13	87.3	4.50	0.20	111			
V-90 CFM 1790 RPM 850 HP 1/4	10	116.0	20.90	4.00	120	132.3	24.00	5.00	128	17	44	18" Ø
	15	110.1	14.50	2.00	117	126.7	16.90	2.60	125			
	20	**106.0**	**10.60**	**1.10**	**115**	**120.0**	**12.00**	**1.40**	**122**			
	30	85.9	5.75	0.34	104	105.0	7.00	0.50	114			
	40	72.0	3.70	0.15	97	87.8	4.50	0.22	105			
V-108 CFM 2380 RPM 850 HP 1/4	10	134.4	24.40	5.40	112	153.9	28.00	7.00	120	15	46	18" Ø
	15	129.9	17.25	2.80	110	150.0	20.00	3.80	118			
	20	**125.0**	**12.50**	**1.50**	**108**	**141.0**	**14.10**	**1.90**	**114**			
	30	108.8	7.25	0.54	102	131.2	8.75	0.75	111			
	40	89.9	4.50	0.22	95	110.2	5.50	0.30	102			
V-124 CFM 2730 RPM 820 HP 3/4	10	152.0	20.00	2.50	111	173.2	23.00	3.20	118	17	44	20" Ø
	15	146.0	14.60	1.35	109	165.0	16.50	1.70	115			
	20	**140.0**	**11.25**	**0.85**	**107**	**162.0**	**12.90**	**1.10**	**114**			
	30	132.0	8.75	0.50	104	156.0	10.40	0.70	112			
	40	116.0	6.00	0.25	99	138.6	7.00	0.32	106			
V-144 CFM 2380 RPM 820 HP 3/4	10	172.0	22.75	3.60	131	196.2	26.00	4.80	138	12	31	20" Ø
	15	170.0	17.00	2.10	128	191.5	19.15	2.70	136			
	20	**164.0**	**13.25**	**1.30**	**125**	**189.0**	**15.00**	**1.60**	**135**			
	30	156.0	10.50	0.85	122	185.4	12.36	1.15	134			
	40	140.0	7.10	0.40	116	166.5	8.30	0.52	126			
V-170 CFM 3160 RPM 820 HP 3/4	15	201.9	26.75	5.00	119	232.2	30.75	7.00	128	18	31	24" Ø
	20	**193.0**	**19.30**	**2.60**	**116**	**220.0**	**22.00**	**3.40**	**124**			
	25	188.0	15.00	1.60	115	214.2	17.25	2.20	123			
	30	182.4	12.25	1.10	113	210.0	14.00	1.40	121			
	40	169.6	8.50	0.55	110	198.0	10.00	0.75	118			
V-204 CFM 4470 RPM 820 HP 1	**20**	**236.0**	**23.60**	**4.00**	**110**	**267.5**	**26.75**	**5.00**	**117**	22	45	24" Ø
	25	229.6	18.35	2.50	109	261.9	21.00	3.20	116			
	30	225.6	15.00	1.60	108	256.7	17.10	2.10	114			
	40	213.8	10.75	0.85	105	245.7	12.40	1.20	112			
V-300 CFM 5660 RPM 820 HP 1	**20**	**345.0**	**34.50**	**5.20**	**118**					25	51	30" Ø
	25	336.0	27.00	3.20	116	384.7	30.75	4.20	124			
	30	320.0	21.30	1.90	114	371.2	24.75	2.60	122			
	40	292.0	14.60	0.95	109	342.0	17.25	1.30	117			

For MBH at EWT other than those indicated in the tables, use 200°F MBH and multiply by factor in table 10. MBH obtained will be at **USGPM of 200°F MBH** used.

* No cone diffuser (standard unit).

SELECTING A UNIT HEATER FOR USE WITH HOT WATER

DESIGN CONDITIONS

- Heating load = 138 MBH
- Entering air temperature (EAT) = 70°F
- Entering water temperature (EWT)* = 220°F
- Water temperature drop (WTD) = 20°F
- Mounting height = 12 feet
- Spread required = 30 feet
- Standard horizontal projection unit required (model H).

SELECTION PROCEDURE

1. Calculate equivalent capacity at conditions of Table 4.

$$\text{Equivalent capacity} = \frac{\text{Capacity required}}{\text{Factor (Table 10)}}$$

$$= \frac{138}{1.06} = 130 \text{ MBH}$$

From Table 8, choose the unit heater with this output, at the condition 200°F EWT and 20°F WTD.
We select Cat. No. H-136 unit heater.

2. Calculate unit capacity at actual conditions.

Actual capacity = MBH (Table 8) x Factor (Table 10)
= 135.5 x 1.06 = 143.63 MBH

3. Calculate coil water flow (USGPM)

$$\text{Waterflow} = \frac{\text{Actual BTUH}}{500 \times \text{WTD}} = \frac{143{,}630}{500 \times 20} = 14.36 \text{ USGPM}$$

4. Calculate coil water pressure drop (WPD).

$$\text{WPD} = \text{WPD (Table 8)} \times \left(\frac{\text{USGPM (Actual)}}{\text{USGPM (Table 8)}}\right)^2$$

$$= 1.31 \times \left(\frac{14.36}{13.55}\right)^2 = 1.47 \text{ feet of water}$$

5. Calculate final air temperature (FAT).

$$\text{FAT} = \text{EAT} + \frac{\text{Actual BTUH}}{\text{CFM} \times 1.08}$$

$$= 70 + \frac{143{,}630}{2470 \times 1.08} = 123.84^{\circ}\text{F}$$

6. Determine mounting height and throw at actual conditions

At Table 2 conditions (220°F EWT and 70°F EAT)
Mounting height = 14' x 1.15 (Table 6) = 16.1 feet
Throw = 44' x 1.15 = 50.6 feet

We can use this unit heater.

NOTE: See "GENERAL SELECTION" for application details (page XX), and Table 7 for noise level.

TABLE 10
HOT WATER CORRECTION FACTORS

ENTERING AIR TEMP. °F	ENTERING AIR TEMPERATURE °F																								
	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400
30	0.96	1.04	1.11	1.18	1.26	1.33	1.41	1.48	1.55	1.63	1.70	1.78	1.85	1.93	2.00	2.07	2.14	2.22	2.30	2.37	2.44	2.52	2.59	2.66	2.74
40	0.88	0.95	1.02	1.10	1.17	1.25	1.32	1.39	1.47	1.54	1.61	1.69	1.76	1.83	1.91	1.98	2.05	2.12	2.19	2.27	2.35	2.42	2.49	2.56	2.63
50	0.80	0.87	0.94	1.01	1.09	1.16	1.23	1.30	1.37	1.45	1.52	1.59	1.66	1.74	1.81	1.88	1.95	2.02	2.10	2.17	2.24	2.31	2.39	2.46	2.53
60	0.73	0.79	0.86	0.93	1.00	1.07	1.14	1.22	1.29	1.36	1.43	1.50	1.57	1.64	1.72	1.79	1.86	1.93	2.00	2.07	2.14	2.23	2.29	2.36	2.43
70	0.65	0.70	1.77	0.85	0.92	0.99	1.06	1.13	1.20	1.27	1.34	1.41	1.48	1.55	1.62	1.69	1.76	1.84	1.91	1.98	2.05	2.12	2.19	2.26	2.33
80	0.57	0.63	0.70	0.77	0.84	0.91	0.98	1.05	1.12	1.19	1.26	1.33	1.40	1.47	1.54	1.60	1.67	1.74	1.82	1.88	1.95	2.02	2.09	2.16	2.23
90	0.48	0.55	0.62	0.69	0.76	0.83	0.90	0.97	1.04	1.11	1.17	1.24	1.31	1.38	1.45	1.52	1.59	1.66	1.72	1.80	1.86	1.93	2.00	2.07	2.14
100	0.42	0.48	0.55	0.62	0.68	0.75	0.82	0.89	.96	1.03	1.10	1.16	1.23	1.30	1.37	1.43	1.50	1.57	1.64	1.71	1.78	1.84	1.91	1.98	2.05

* For MBH at EWT other than those indicated in the tables, use 200°F MBH andmultiply by factor in table 10. MBH obtained will be at **USGPM of 200°F MBH** used.

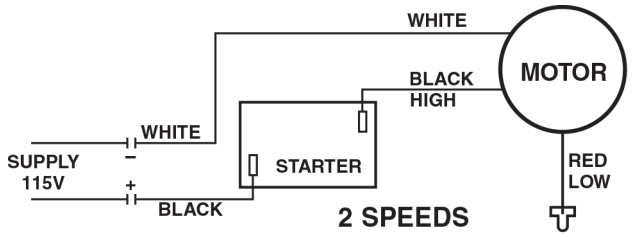
UNIT HEATER MOTOR SPEEDS & SWITCHES

TABLE 11

HORIZONTAL UNIT		VERTICAL UNIT		MOTOR (115/1/60)		
				HP	A	NOMINAL RPM
		V-30, V-40	VS-47, VS-55	1/30	1.15	1550
H-18, H-24 H-26, H-36	HS-25, HS-31 HS-39, HS-47			1/20	0.94	1550
H-32, H-40 H-44, H-58	HS-43, HS-51	V-38, V-48	VS-57, VS-67	1/12	1.60	1550
H-50, H-60, H-70, H-82	HS-73, HS-95	V-70, V-84*	VS-89, VS-103*	1/6	2.60	1075
H-80, H-98*	HS-97, HS-113*			1/4	3.60	1100
H-96, H-114 H-102, H-122* H-136, H-166	HS-117, HS-137*	V-50*, V-80* V-90, V-106* V-108, V-130*	VS-137, VS-157*	1/4	3.60	1075
		V-66*, V-96*		1/4	3.40	1725
H-144, H-174* H-194, H-234*	HS-175, HS-205*			1/3	4.90	1100
H-250	HS-265			0.6	6.70	1075
		V-124, V-140* V-144, V-180* V-170, V-200*	VS-171, VS-197*	3/4	10.30	1100
		V-204, V-252 V-300, V-370	VS-247, VS-279 VS-361, VS-413	1	14.00	1075
		V-520	VS-595	2**		
H-400	HS-400			1 1/2***		1140

* Available with "Explosion Proof" motor.
** 575/3/60
*** 460/200-230/3/60
NOTE: Applies to Standard Motors only, when Special Motors are needed (TEFC, Explosion Proof...) Please contact our Engineering Department.

FIGURE 3
TYPICAL WIRING DIAGRAM



Note: Refer to unit for current wiring diagram.

TABLE 12
MOTOR CHARACTERISTICS

UNIT	MOTOR													
	HP	1/30	1/20	1/12	1/6		1/4	1/4	1/3	0.6		3/4	1	2
MODEL H	VOLTS		115	115	115		115		115	115				
	AMP.		0.94	1.6	2.60		3.6		4.9	6.7				
	RPM		1000 1550	1000 1550	820 1075		820 1075		820 1100	1075				
MODEL V	VOLTS	120		115	115		115	115				115	115	575
	AMP.	1.15		1.6	2.60		3.6	3.4				10.3	14.0	2.7
	RPM	1000 1300 1550		1000 1550	820 1075		820 1075	1725				820 1100	820 1100	1100

All motors operate on 60 cycles. 1Ø, except 2 HP motors 575/3/60.

The mechanical contractor shall supply and install Rosemex unit heaters in models and sizes as shown on plans and described in specifications.

CASING

Shall be of high quality, die formed, cold rolled steel, degreased, phosphatized, etched and finished in aluminium semigloss finish.

COIL

Shall consist of aluminum corrugated fins on mechanically expanded copper tubes, welded to steel headers and tested with
350 PSIG air pressure in submerged water.

SPECIFICATIONS

Shall specify:

- Cat. No.
- Volts
- Phase
- Optional
  - louver cone diffusers
  - Protective grille standart on all vertical units
  - Motor speed

Controls and optional motors are supplied at additional cost (contact factory).

For information about your nearest branch or agent, contact Head Office or our website at www.rosemex.com

MOTORS

With permenant split capacitor and shall be thermally protected and permanently lubricated for a minimum of 20,000 hours. They shall be totally enclosed on H and HS models. Motors or supports shall be resiliently mounted. Motors on H and HS units shall be mounted on formed, welded and plated heavy gauge wire support. On V and VS units, motors and blades shall be removable through fan opening.

FANS

Fan blades shall be aluminum and balanced for quietness.

DIFFUSERS

Louver fin (model H) and louver cone (model V) diffusers shall have individually adjustable blades for maximum air distribution flexibility.

In the interest of product improvement, we reserve the right to make product and specification changes without notice.

HORIZONTAL PROJECTION — MODEL H

FIGURE 4

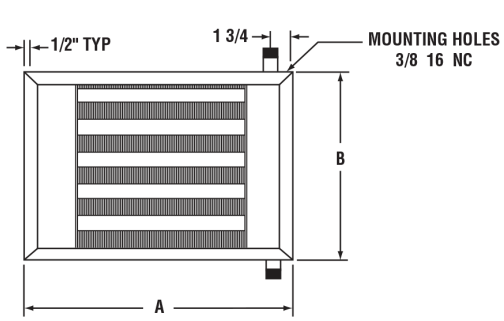


TABLE 13

CATALOGUE NO.		FAN DIAM.	A	B	C	D	E	F	WEIGHT
STANDARD	LOW OUT TEMP.								
H-18, H-24	HS-25, HS-31	10	19	12 3/4	9	17	3	1 1/4	39
H-26, H-36	HS-39, HS-47	14	22	15 3/4	9	16 1/2	3	1 1/4	53
H-32, H-40	HS-43, HS-51	14	22	15 3/4	9	17 1/2	3	1 1/4	53
H-44, H-58		14	25	18 3/4	9	16 1/2	3	1 1/4	64
H-50, H-60	HS-73	16	25	18 3/4	9	16 1/2	3	1 1/4	64
H-70, H-82	HS-95	16	29	21 3/4	9	16 1/2	3	1 1/2	82
H-80, H-98	HS-97, HS-113	18	29	21 3/4	9	18	3	1 1/2	82
H-96, H-114		20	32	24 3/4	12	19 1/2	4 1/8	1 1/2	122
H-102, H-122	HS-117, HS-137	20	32	24 3/4	12	21	4 1/8	1 1/2	122
H-136, H-166		20	37	30 3/4	12	21	4 1/8	1 1/2	166
H-144, H-174	HS-175, HS-205	24	37	30 3/4	12	23 1/2	4 1/8	1 1/2	166
H-194, H-234		26	46	30 3/4	12	23 1/2	4 1/8	1 1/2	184
H-250	HS-265	26	46	30 3/4	12	23 1/2	4 1/8	1 1/2	184
H-400	HS-420	26	55	30 3/4	12	26	4 1/8	1 1/2	230

VERTICAL PROJECTION — MODEL V

FIGURE 5

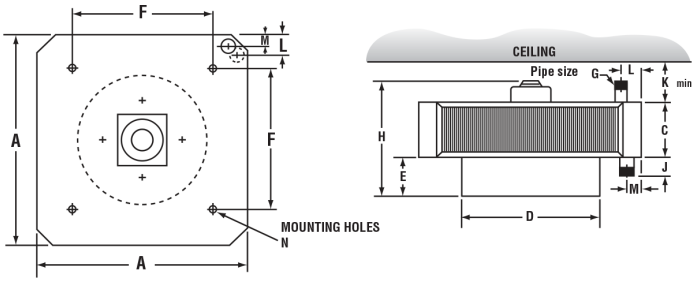


FIGURE 6

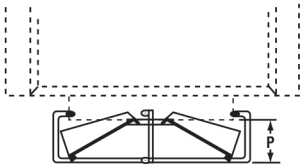
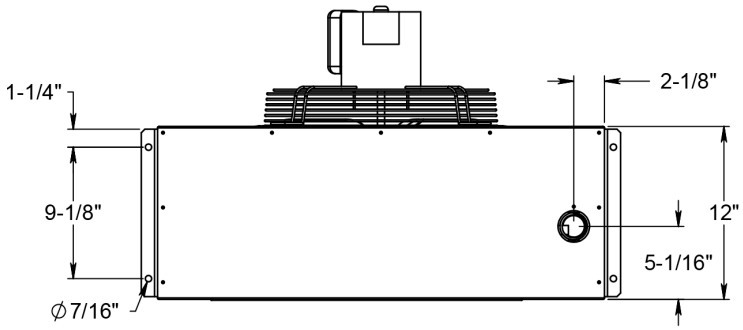
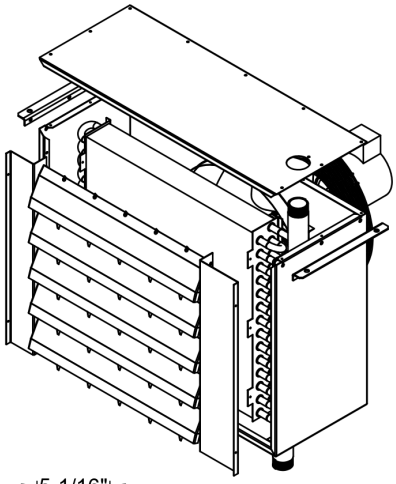
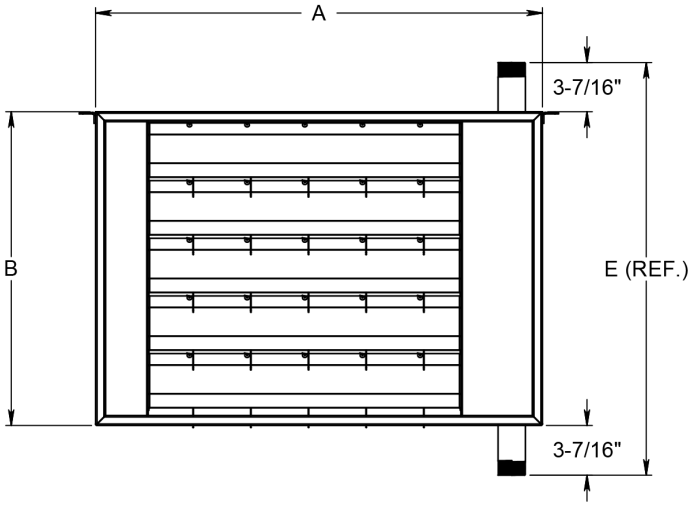


TABLE 14

CATALOGUE NO.		FAN DIAM.	A	C	D	E	F	G	H	J	K	L	M	N	P	WEIGHT
STANDARD	LOW OUT TEMP.															
V-30, 40 V-38, 48 V-50, 66	VS-47, 55 VS-57,67	12	21	6	12 3/8	2 1/2	11	1 1/2	8 1/2	2 3/4	6	3 1/16	1 3/4	3/8 -16 NC	4 1/4	30
		14			14 7/16	4			12							36
		14			14 7/16	4			13 1/2							36
V-70, 84 V-80, 96	VS-89, 103	16	26 1/2	6	16 7/16	4	16	1 1/2	12 13 1/2	2 3/4	6	3 1/16	1 3/4	3/8 -16 NC	5	64
V-90, 106 V-108, 130	VS-137, 157	18	34 1/4	6	18 1/2	4	22	2	12	2 3/4	7	5 5/16	2 1/4	1/2 -13 NC	5 3/4	72 89
V-124, 140		20	34 1/4	7 1/2	20 1/2	4	22	2	16 1/2	2 3/4	7	5 5/16	2 1/4	1/2 -13 NC	5 3/4	98
V-144, 180 V-170, 200 V-204, 252	VS-171, 197 VS-247-279	24	37 3/4	7 1/2	24 5/8	5	24	2	15 1/2 16 1/2 17 1/2	2 3/4	7	5 5/16	2 1/4	1/2 -13 NC	6 3/4	98 106 125
V-300, 370	VS-361, 413	30	43 5/8	9	30 3/4	6	30	2 1/2	18	3	8	4 5/16	2 1/4	1/2 -13 NC	8	162
V-520	VS-595	30	43 5/8	13 1/2	30 3/4	6	30	2 1/2	19 1/2	3	8	4 5/16	2 1/4	1/2 -13 NC	8	250







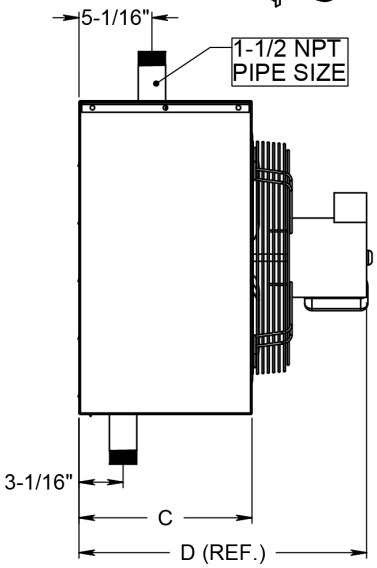
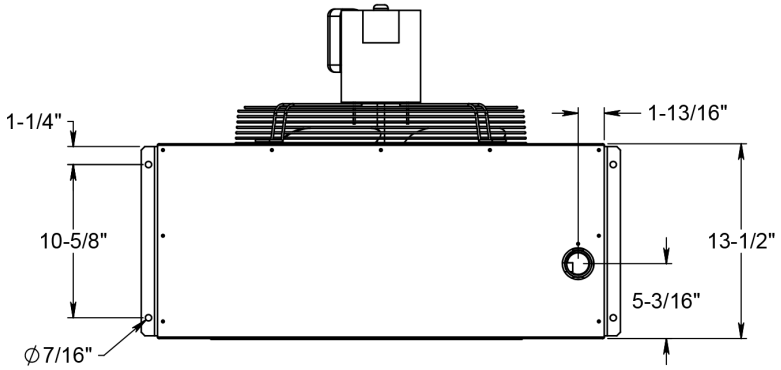
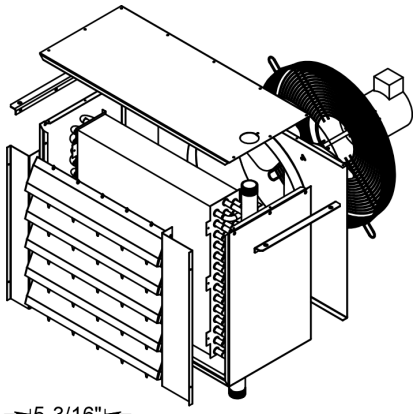


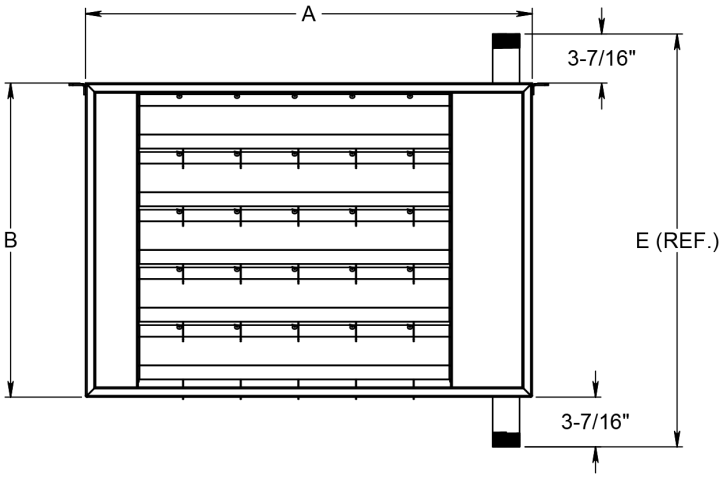
TABLE 15

CATALOGUE NO.		FAN DIAM.	A	B	C	D	E	PIPE SIZE
H-18-2R	H-24-2R	10	21	12 3/4	12	17 3/4	19 5/8	1 1/2
H-26-2R	H-36-2R	14	24	15 3/4	12	17 3/4	22 5/8	1 1/2
H-32-2R	H-40-2R	14	24	15 3/4	12	18 5/8	22 5/8	1 1/2
H-44-2R	H-56-2R	14	27	18 3/4	12	18 5/8	25 5/8	1 1/2
H-50-2R	H-60-2R	16	27	18 3/4	12	18 5/8	25 5/8	1 1/2
H-70-2R	H-82-2R	16	31	21 3/4	12	20	28 5/8	1 1/2
H-80-2R	H-98-2R	18	31	21 3/4	12	21 1/4	28 5/8	1 1/2
H-96-2R	H-114-2R	20	34	24 3/4	12	21 1/4	31 5/8	1 1/2
H-102-2R	H-122-2R	20	34	24 3/4	12	21 1/4	31 5/8	1 1/2
H-136-2R	H-166-2R	20	39	30 3/4	12	21 1/4	37 5/8	1 1/2
H-144-2R	H-174-2R	24	39	30 3/4	12	21 1/2	37 5/8	1 1/2
H-194-2R	H-234-2R	26	48	30 3/4	12	21 1/2	37 5/8	1 1/2
H-250-2R		26	48	30 3/4	12	21 1/2	37 5/8	1 1/2
H-400-2R		26	57	30 3/4	12	21 1/2	37 5/8	1 1/2

HORIZONTAL UNIT HEATERS 3R







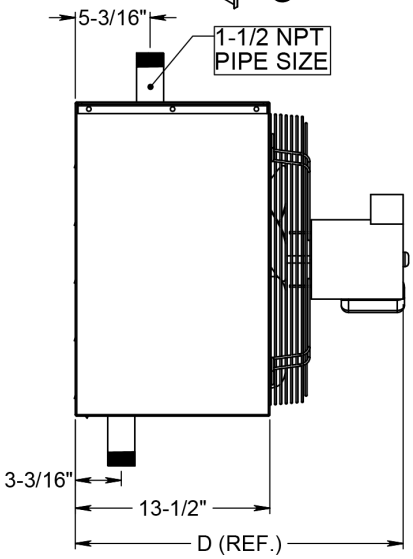


TABLE 16

CATALOGUE NO.		FAN DIAM.	A	B	C	D	E	PIPE SIZE
H-18-3R	H-24-3R	10	21	12 3/4	13 1/2	19 1/4	19 5/8	1 1/2
H-26-3R	H-36-3R	14	24	15 3/4	13 1/2	19 1/4	22 5/8	1 1/2
H-32-3R	H-40-3R	14	24	15 3/4	13 1/2	20 1/8	22 5/8	1 1/2
H-44-3R	H-56-3R	14	27	18 3/4	13 1/2	20 1/8	25 5/8	1 1/2
H-50-3R	H-60-3R	16	27	18 3/4	13 1/2	20 1/8	25 5/8	1 1/2
H-70-3R	H-82-3R	16	31	21 3/4	13 1/2	21 1/2	28 5/8	1 1/2
H-80-3R	H-98-3R	18	31	21 3/4	13 1/2	22 3/4	28 5/8	1 1/2
H-96-3R	H-114-3R	20	34	24 3/4	13 1/2	22 3/4	31 5/8	1 1/2
H-102-3R	H-122-3R	20	34	24 3/4	13 1/2	22 3/4	31 5/8	1 1/2
H-136-3R	H-166-3R	20	39	30 3/4	13 1/2	22 3/4	37 5/8	1 1/2
H-144-3R	H-174-3R	24	39	30 3/4	13 1/2	23	37 5/8	1 1/2
H-194-3R	H-234-3R	26	48	30 3/4	13 1/2	23	37 5/8	1 1/2
H-250-3R		26	48	30 3/4	13 1/2	23	37 5/8	1 1/2
H-400-3R		26	57	30 3/4	13 1/2	23	37 5/8	1 1/2

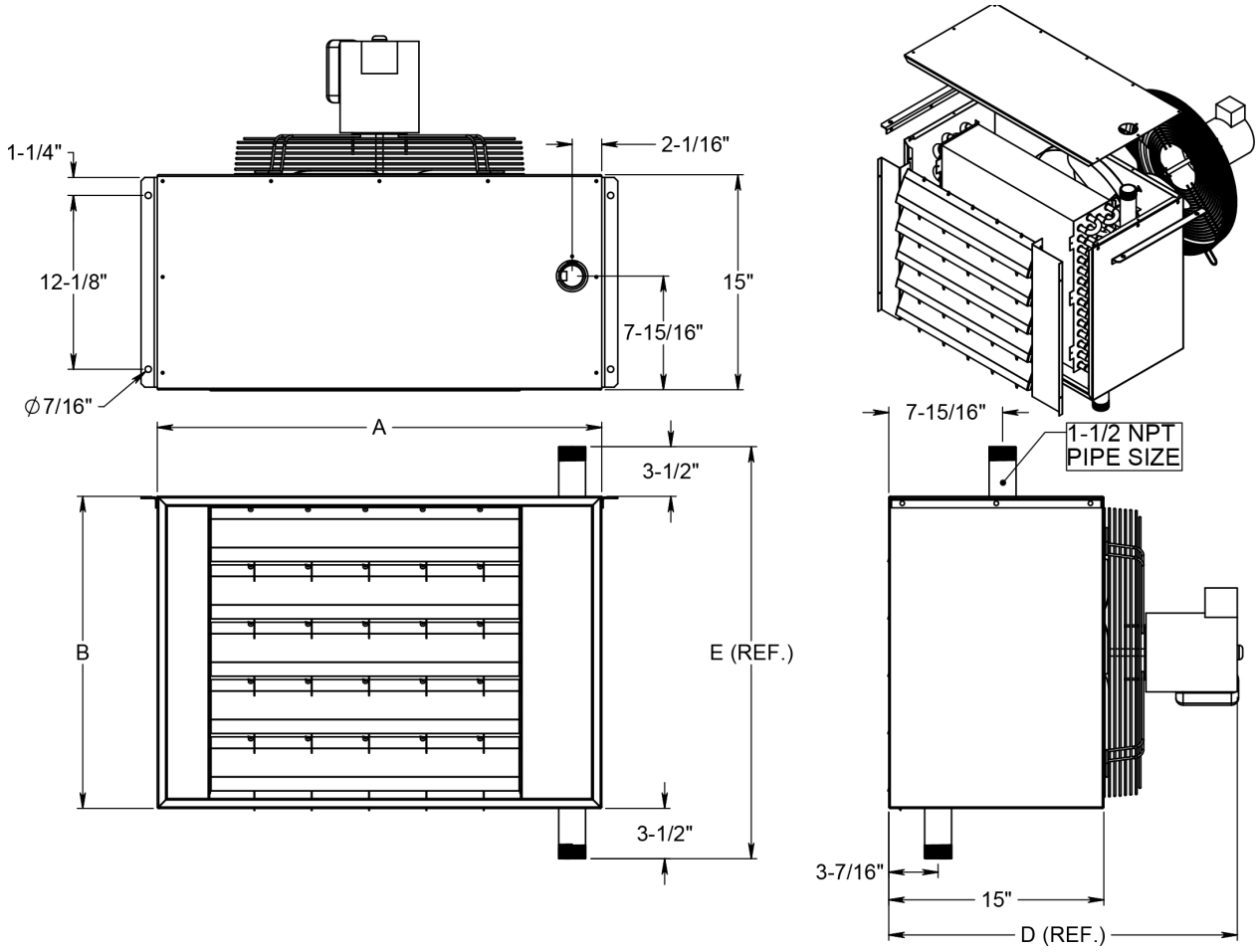


TABLE 17

CATALOGUE NO.		FAN DIAM.	A	B	C	D	E	PIPE SIZE
H-18-4R	H-24-4R	10	21	12 3/4	15	20 3/4	19 5/8	1 1/2
H-26-4R	H-36-4R	14	24	15 3/4	15	20 3/4	22 5/8	1 1/2
H-32-4R	H-40-4R	14	24	15 3/4	15	21 5/8	22 5/8	1 1/2
H-44-4R	H-56-4R	14	27	18 3/4	15	21 5/8	25 5/8	1 1/2
H-50-4R	H-60-4R	16	27	18 3/4	15	21 5/8	25 5/8	1 1/2
H-70-4R	H-82-4R	16	31	21 3/4	15	23	28 5/8	1 1/2
H-80-4R	H-98-4R	18	31	21 3/4	15	24 1/4	28 5/8	1 1/2
H-96-4R	H-114-4R	20	34	24 3/4	15	24 1/4	31 5/8	1 1/2
H-102-4R	H-122-4R	20	34	24 3/4	15	24 1/4	31 5/8	1 1/2
H-136-4R	H-166-4R	20	39	30 3/4	15	24 1/4	37 5/8	1 1/2
H-144-4R	H-174-4R	24	39	30 3/4	15	25 1/2	37 5/8	1 1/2
H-194-4R	H-234-4R	26	48	30 3/4	15	25 1/2	37 5/8	1 1/2
H-250-4R		26	48	30 3/4	15	25 1/2	37 5/8	1 1/2
H-400-4R		26	57	30 3/4	15	25 1/2	37 5/8	1 1/2

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