

# LENNOX®

ENGINEERING DATA



PACKAGED HEAT PUMPS

## ELITE 12™ PACKAGED HEAT PUMPS

\*23,800 to 48,000 Btuh (7.0 to 14.1 kW) Cooling Capacity  
\*22,000 to 47,000 Btuh (6.4 to 13.8 kW) Heating Capacity  
12,800 to 85,300 Btuh (3.8 To 25.0 Kw) Optional Electric Heat

\*ARI Certified Ratings

## CHP26

(2 To 4 Ton)  
(7.0 To 14.1 kW)

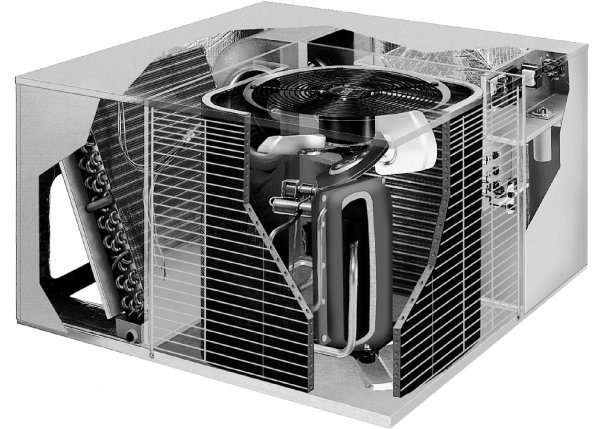
Bulletin No. 210111

October 1997

Supersedes November 1996



Copeland®  
Compliant Scroll™  
Compressor



### FEATURES

#### Applications

- Designed for outdoor installations at ground level or rooftop for residential applications.

#### Approvals

- Ratings are certified by E.T.L.
- Cooling ratings according to DOE test procedures.
- Cooling ratings in accordance with ARI Standard 210/240-94.
- Units are listed by E.T.L. for U.S. and Canada.
- Packaged unit and components within bonded for grounding to meet safety standards required by E.T.L.
- Developed in accordance with ISO 9001 quality standards.
- Each unit test operated at the factory before shipment ensuring dependable operation at start-up.

#### Equipment Warranty

- Compressor - 10 year limited warranty.
- Parts - 5 year limited warranty on covered components.
- Refer to warranty certificate included with unit for specific details.

#### Refrigeration System

- External service gauge ports.

#### Copeland® Compliant Scroll™ Compressor

- Compressor features high efficiency with uniform suction flow, constant discharge flow and high volumetric efficiency and quiet operation.
- Compressor motor is internally protected from excessive current and temperature.
- Compressor is installed in the unit on resilient rubber mounts for vibration free operation.
- Compressor cover reduces operating sound levels.

#### Defrost Control

- Solid-state defrost control furnished as standard equipment.
- Gives a defrost cycle (14 minutes) for every 30, 60 or 90 minutes (adjustable) of compressor "on" time at outdoor temperatures below 35°F (2°C).
- Sensor mounted on liquid line determines when defrost cycle is required and also when to terminate cycle.

#### Indoor and Outdoor Coils

- Copper tube with enhanced fin coils.

#### Outdoor Coil Fan

- Weather protected heavy duty condenser fan motor with aluminum fan for long life.
- Totally enclosed motor.

#### Variable Speed Motor and Supply Air Blower

- EFM variable speed motor with integrated motor controller for wide airflow range.
- Maintains specified air volume throughout external static range.
- 50% constant speed blower capability.
- Dynamically balanced blower with resilient motor mounts for smooth and quiet operation.
- Insulated compartment to reduce sound.
- Easy service split ring design with quick plug-in wiring.

#### Controls

- Solid-state blower control.
- Two pole contactor for improved reliability.
- Trade available components.
- Color coded wiring for easy service.

#### Cabinet

- Low Profile.
- Compact footprint.
- Fully insulated to minimize heat loss.
- Powder paint for maximum durability.
- Easy service access.
- Coil guard furnished.
- One piece "no leak" top design.
- Interchangeable panel for horizontal to down-flow airflow conversion (shipped for horizontal).

#### Air Filters (Required)

- Not furnished must be field provided.
- Filter rack furnished.

### OPTIONAL ACCESSORIES - Must Be Ordered Extra

#### Thermostat (Optional)

- Not furnished must be ordered extra.

#### Accessories (Optional)

- Electric Heat (5-20 kW)
- Outdoor Thermostat Kit
- Timed-Off Control (5 minutes)
- Low Ambient Control Kit
- High Pressure Switch Kit (Auto-Reset)



# SPECIFICATIONS

Model No.		CHP26-024	CHP26-030	CHP26-036	CHP26-042	CHP26-048
ARI Cooling Ratings	Cooling Capacity — Btuh (kW)	23,800 (7.0)	29,000 (8.5)	334,000 (10.0)	39,500 (11.6)	48,000 (14.1)
	Total unit watts	1980	2770	3400	3920	4360
	SEER (Btuh/Watts)	12.00				12.50
	EER (Btuh/Watts)	13.0	10.50	10.0		11.0
ARI Certified High Temperature Heating Ratings	Total Capacity — Btuh (kW)	24,000 (7.0)	30,000 (8.8)	35,000 (10.3)	39,200 (11.5)	47,000 (13.8)
	Total unit watts	2150	2700	3210	3590	4670
	C.O.P (Coefficient of Performance)	3.0	3.1		3.2	2.95
	HSPF — Region IV	7.60	7.50	7.20	7.60	7.00
ARI Certified Low Temperature Heating Ratings	Total Capacity — Btuh (kW)	12,000 (3.5)	16,100 (4.7)	19,000 (5.6)	23,500 (6.9)	28,000 (8.2)
	Total unit watts	1800	2360	2850	3200	4000
	C.O.P (Coefficient of Performance)	1.95	2.0	1.95	2.15	2.05
Sound Rating Number (db)		76		80		
Refrigerant Charge (HCFC-22)		6 lbs 12 oz. (3.1 kg)	6 lbs. 15 oz. (3.1 kg)	7 lbs. 5 oz. (3.3 kg)	6 lbs 12 oz. (3.1 kg)	11 lbs 8 oz. (5.2 kg)
Indoor Coil Blower	Blower wheel size D x W in. (mm)	10 x 8 (254 x 203)			10 x 9 (254 x 229)	10 x 10 (254 x 254)
	Motor horsepower (W)	1/2 (373)		3/4 (560)		
Indoor Coil	Net face area - sq. ft. (m <sup>2</sup> )	3.6 (0.33)		4.2 (0.39)		6.1 (0.57)
	Tube dia. - in. (mm) & No. of rows	5/16 (16.9) - 3	3/8 (9.5) - 3			
	Fins per inch (m)	14 (551)				
Outdoor Coil	Net face area - sq. ft. (m <sup>2</sup> )	12.3 (1.14)		14.4 (1.34)		17.5 (1.63)
	Tube dia. - in. (mm) & No. of rows	5/16 (16.9) - 1		3/8 (9.5) - 2		
	Fins per inch (m)	15 (591)				16 (630)
Outdoor Coil Fan	Diameter - in. (mm) & No. of blades	18 (457) - 4				20 (508) - 4
	Air Volume - cfm (L/s)	2200 (1040)				3000 (1415)
	Motor horsepower (W)	1/4 (187)				
	Motor watts	250				325
Condensate drain size fpt - in. (mm)		(1) 3/4 (19)				
No. & size of filters - in. (mm)		(1) 24 x 25 x 1 (610 x 635 x 25)		(1) 28 x 25 x 1 (711 x 635 x 25)		(1) 30 x 30 x 1 (762 x 762 x 25)
Net weight of basic unit - lbs. (kg)		260 (118)	280 (127)	300 (136)	330 (150)	420 (191)
Shipping weight of basic unit - lbs. (kg) (1 Package)		275 (125)	295 (134)	315 (143)	345 (156)	435 (197)
Electrical characteristics		208/230v-1ph-60 hz				
<b>Optional Accessories - Must be Ordered Extra</b>						
Supplemental Electric Heat - kW range		05-07-10	05-07-10-15		10-15-20	
Low Ambient Control Kit		<b>42K88</b>				
Timed-Off Control		<b>42K90</b>				
Outdoor Thermostat Kit	Thermostat Kit	LB-29740BA ( <b>56A87</b> )				
	Mounting Box	M-1595 ( <b>31461</b> )				
High Pressure Switch		<b>42K89</b>				

ARI Rated in accordance with ARI Standard 210/240; 95°F (35°C) outdoor air temperature, 80°F (27°C) db / 67°F (19°C) wb entering evaporator air.

Filters are not furnished and must be ordered extra.

## ELECTRICAL DATA

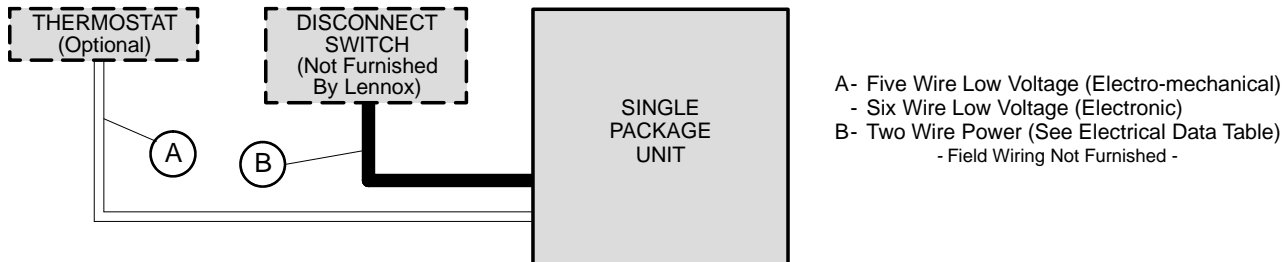
Model No.		CHP26-024	CHP26-030	CHP26-036	CHP26-042	CHP26-048
Line voltage data - 60hz 1 phase		208/230v				
Compressor	Rated load amps	10.4	13.6	16.2	18.2	24
	Locked rotor amps	56	72.5	88	104	129
Outdoor Coil Fan Motor	Full load amps	1.8				
	Locked rotor amps	3.8				
Indoor Coil Blower Motor	Full load amps	1.5	2.4			
	Locked rotor amps	3.0	5.0			
① Recommended maximum fuse size or circuit breaker size (amps)		25	30	35	40	50
② Minimum Circuit Ampacity		16.3	21.2	24.5	26.9	34.2
Unit power factor		.97		.98	.97	.98

② Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirement

① NOTE - Where current does not exceed 100 amps, HACR type circuit breaker may be used in place of fuse (U.S. only).

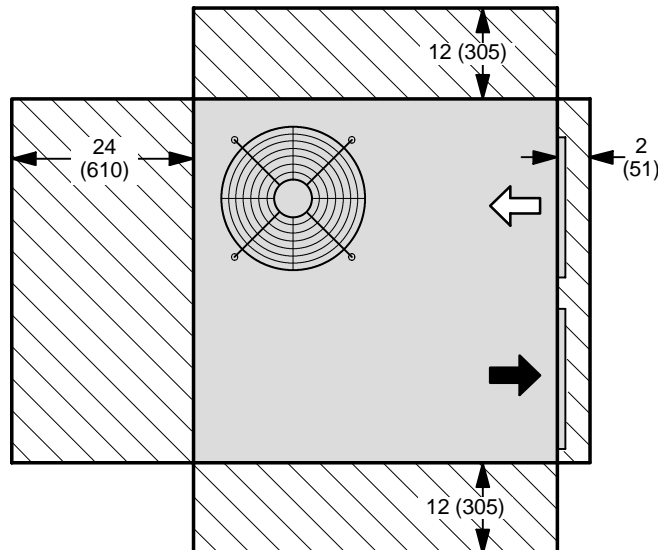
NOTE - Extremes of operating range are plus and minus 10% of line voltage.

## FIELD WIRING



NOTE - All wiring must conform to NEC or CEC and local electrical codes.

## INSTALLATION CLEARANCES - inches (mm)



NOTE — Top Clearance Unobstructed.

## ELECTRIC HEAT DATA

Packaged Unit Model No.	Electric Heater Model No. & Net Weight	kW Input	No. of Steps & Phase	Volts Input	Electric Heat kW Input	Electric Heat Btuh Input	Heater Only Minimum Circuit Ampacity	
							Circuit 1	Circuit 2
CHP26-024	ECH29-05 <b>(71K18)</b> (4 lbs.) (2 kg)	5	1 step (1 phase)	208	3.8	12,800	25.8	----
				220	4.2	14,300	27.1	----
				230	4.6	15,700	28.3	----
				240	5.0	17,100	29.3	----
	ECH29-07 <b>(74K64)</b> (5 lbs.) (2 kg)	7	1 step (1 phase)	208	5.3	18,100	34.8	----
				220	5.9	20,100	36.7	----
				230	6.4	21,800	38.0	----
				240	7.0	23,900	39.7	----
	ECH29-10 <b>(71K19)</b> (5 lbs.) (2 kg)	10	1 step (1 phase)	208	7.5	25,600	48.4	----
				220	8.4	28,700	51.1	----
				230	9.2	31,400	53.3	----
				240	10.0	34,100	55.3	----
CHP26-030 CHP26-036	ECH29-05 <b>(71K18)</b> (4 lbs.) (2 kg)	5	1 step (1 phase)	208	3.8	12,800	25.8	----
				220	4.2	14,300	27.1	----
				230	4.6	15,700	28.3	----
				240	5.0	17,100	29.3	----
	ECH29-07 <b>(74K64)</b> (5 lbs.) (2 kg)	7	1 step (1 phase)	208	5.3	18,100	34.8	----
				220	5.9	20,100	36.7	----
				230	6.4	21,800	38.0	----
				240	7.0	23,900	39.7	----
	ECH29-10 <b>(71K19)</b> (5 lbs.) (2 kg)	10	1 step (1 phase)	208	7.5	25,600	48.4	----
				220	8.4	28,700	51.1	----
				230	9.2	31,400	53.3	----
				240	10.0	34,100	55.3	----
	ECH29-15 <b>(71K20)</b> (17 lbs.) (8 kg)	15	1 step (1 phase)	208	11.3	38,600	48.4	22.6
				220	12.6	43,000	51.1	23.8
				230	13.8	47,100	53.3	25.0
				240	15.0	51,200	55.3	26.0
CHP26-042	ECH29-05 <b>(71K18)</b> (4 lbs.) (2 kg)	5	1 step (1 phase)	208	3.8	12,800	26.8	----
				220	4.2	14,300	28.1	----
				230	4.6	15,700	29.3	----
				240	5.0	17,100	30.3	----
	ECH29-07 <b>(74K64)</b> (5 lbs.) (2 kg)	7	1 step (1 phase)	208	5.3	18,100	35.8	----
				220	5.9	20,100	37.7	----
				230	6.4	21,800	39.0	----
				240	7.0	23,900	40.7	----
	ECH29-10 <b>(71K19)</b> (5 lbs.) (2 kg)	10	1 step (1 phase)	208	7.5	25,600	49.4	----
				220	8.4	28,700	52.1	----
				230	9.2	31,400	54.3	----
				240	10.0	34,100	56.3	----
	ECH29-15 <b>(71K20)</b> (17 lbs.) (8 kg)	15	1 step (1 phase)	208	11.3	38,600	49.4	22.6
				220	12.6	43,000	52.1	23.8
				230	13.8	47,100	53.3	25.0
				240	15.0	51,200	56.3	26.0
CHP26-048	ECH29-10 <b>(71K19)</b> (5 lbs.) (2 kg)	10	1 step (1 phase)	208	7.5	25,600	51.4	----
				220	8.4	28,700	54.1	----
				230	9.2	31,400	56.3	----
				240	10.0	34,100	58.4	----
	ECH29-15 <b>(71K20)</b> (18 lbs.) (8 kg)	15	1 step (1 phase)	208	11.3	38,600	51.4	22.6
				220	12.6	43,000	54.1	23.8
				230	13.8	47,100	56.3	25.0
				240	15.0	51,200	58.4	26.0
	ECH29-20 <b>(71K21)</b> (20 lbs.) (9 kg)	20	1 step (1 phase)	208	15.0	51,200	51.4	45.1
				220	16.8	57,300	54.1	47.8
				230	18.4	62,800	56.3	50.0
				240	20.0	68,300	58.4	52.1

☐ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F (75°C).

# BLOWER DATA

## BLOWER PERFORMANCE (Factory Setting)

Model No.	Blower Speed	Air Volume at External Pressure - in. w.g. (Pa)													
		.20 (50)		.30 (75)		.40 (100)		.50 (125)		.60 (150)		.70 (175)		.80 (200)	
		cfm	L/s	cfm	L/s	cfm	L/s	cfm	L/s	cfm	L/s	cfm	L/s	cfm	L/s
CHP26-024	Continuous Blower	400	190	400	190	380	180	370	170	400	190	330	155	360	170
	Heat Pump Operation	780	370	750	380	740	350	700	330	760	360	740	350	700	330
	Heat Pump +2nd Stage Heat	780	370	770	425	750	355	710	335	860	405	840	395	800	380
CHP26-030	Continuous Blower	700	330	700	330	700	330	700	330	680	320	670	315	660	310
	Heat Pump Operation	1080	510	1080	510	1080	510	950	450	950	450	800	380	675	320
	Heat Pump +2nd Stage Heat	1100	520	1100	520	1100	520	970	460	970	460	820	385	670	315
CHP26-036	Continuous Blower	600	285	590	280	570	270	580	275	550	260	530	250	550	260
	Heat Pump Operation	1190	565	1190	560	1170	550	1090	515	1090	515	990	465	850	400
	Heat Pump +2nd Stage Heat	1190	565	1180	555	1180	555	1120	530	1120	530	1010	475	850	400
CHP26-042	Continuous Blower	700	330	700	330	700	330	700	330	700	330	700	330	700	330
	Heat Pump Operation	1430	675	1400	675	1350	635	1260	595	1260	595	1160	545	1110	525
	Heat Pump +2nd Stage Heat	1400	660	1400	660	1400	660	1350	635	1350	635	1260	595	1160	545
CHP26-048	Continuous Blower	900	425	900	425	900	425	900	425	900	425	900	425	900	425
	Heat Pump Operation	1600	755	1600	755	1600	755	1600	755	1600	755	1600	755	1600	755
	Heat Pump +2nd Stage Heat	1600	755	1600	755	1600	755	1600	755	1600	755	1600	755	1600	755

NOTE — All air data is measured external to unit without air filters

## RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### CHP26-024 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)					
						Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb					
			cfm	L/s	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		
63°F (17°C)	700	330	22.5	6.6	1630	0.71	0.85	1.00	21.8	6.4	1650	0.73	0.85	1.00	19.3	5.7	1840	0.82	0.87	1.00	17.0	5.0	2090	0.87	0.87	1.00
	800	380	22.9	6.7	1640	0.72	0.87	1.00	22.3	6.5	1660	0.74	0.87	1.00	19.7	5.8	1855	0.83	0.89	1.00	17.3	5.1	2105	0.88	0.89	1.00
	900	425	23.3	6.8	1655	0.79	0.94	1.00	22.6	6.6	1680	0.81	0.94	1.00	20.0	5.9	1870	0.91	0.96	1.00	17.6	5.2	2125	0.97	0.96	1.00
67°F (19°C)	700	330	24.2	7.1	1700	0.71	0.68	0.81	23.3	6.8	1725	0.56	0.70	0.83	22.2	6.5	1875	0.59	0.73	0.87	19.9	5.8	2130	0.61	0.75	0.90
	800	380	24.7	7.2	1715	0.72	0.69	0.83	23.8	7.0	1735	0.57	0.71	0.86	22.6	6.6	1890	0.59	0.74	0.90	20.3	5.9	2145	0.62	0.77	0.92
	900	425	25.1	7.4	1730	0.79	0.75	0.87	24.2	7.1	1755	0.62	0.77	0.89	22.9	6.7	1905	0.65	0.80	0.93	20.6	6.0	2165	0.68	0.83	0.95
71°F (22°C)	700	330	26.8	7.9	1755	0.48	0.52	0.61	26.0	7.6	1775	0.49	0.53	0.63	24.8	7.3	1905	0.51	0.55	0.65	22.9	6.7	2165	0.53	0.58	0.67
	800	380	27.3	8.0	1765	0.48	0.53	0.62	26.5	7.8	1790	0.50	0.54	0.64	25.3	7.4	1920	0.52	0.56	0.66	23.4	6.9	2180	0.54	0.59	0.68
	900	425	27.7	8.1	1785	0.53	0.57	0.64	26.9	7.9	1810	0.55	0.59	0.67	25.7	7.5	1940	0.57	0.61	0.69	23.8	7.0	2205	0.59	0.63	0.71

Note- All values are gross capacities and do not include indoor coil blower motor heat deduction.

### CHP26-024 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
700	330	27.4	8.0	1820	21.3	6.2	1550	15.0	4.4	1300	9.9	2.9	920	5.4	1.5	695
800	380	27.8	8.1	1835	21.5	6.3	1560	15.2	4.5	1310	10.0	2.9	925	5.5	1.6	700
900	425	28.0	8.2	1850	21.7	6.4	1575	15.3	4.5	1320	10.1	3.0	935	5.6	1.6	710

Note- Heating capacities include the effect of defrost cycles in the temperature range where they occur.

# RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

## CHP26-030 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
			cfm	L/s	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW
63°F (17°C)	875	410	27.1	7.9	2190	0.77	0.86	1.00	26.3	7.7	2235	0.79	0.86	1.00	24.0	7.0	2470	0.82	0.86	1.00	20.8	6.1	2820	0.86	0.87	1.00
	1000	470	27.7	8.1	2205	0.78	0.88	1.00	26.9	7.9	2250	0.80	0.88	1.00	24.5	7.2	2485	0.83	0.88	1.00	21.2	6.2	2840	0.87	0.89	1.00
	1125	530	28.1	8.2	2225	0.86	0.95	1.00	27.3	8.0	2270	0.88	0.95	1.00	24.8	7.3	2510	0.91	0.95	1.00	21.5	6.3	2865	0.96	0.96	1.00
67°F (19°C)	875	410	30.3	8.9	2255	0.55	0.69	0.82	28.4	8.2	2300	0.57	0.71	0.85	27.5	8.1	2575	0.58	0.72	0.86	24.2	7.1	2870	0.61	0.75	0.90
	1000	470	30.9	9.1	2270	0.56	0.70	0.85	29.0	8.5	2320	0.58	0.72	0.87	28.1	8.2	2590	0.58	0.73	0.88	24.7	7.2	2890	0.62	0.77	0.92
	1125	530	31.4	9.2	2295	0.62	0.76	0.88	29.4	8.6	2340	0.63	0.78	0.91	28.5	8.4	2620	0.64	0.79	0.92	25.0	7.3	2920	0.68	0.83	0.95
71°F (22°C)	875	410	34.6	10.1	2295	0.49	0.52	0.60	33.6	9.8	2345	0.50	0.54	0.62	31.3	9.2	2650	0.51	0.55	0.64	27.7	8.1	2955	0.53	0.58	0.67
	1000	470	35.4	10.4	2315	0.49	0.53	0.61	34.3	10.0	2360	0.50	0.55	0.63	32.0	9.4	2665	0.51	0.56	0.65	28.3	8.3	2975	0.54	0.59	0.68
	1125	530	35.9	10.5	2335	0.54	0.58	0.63	34.8	10.2	2385	0.55	0.59	0.66	32.4	9.5	2695	0.56	0.60	0.68	28.7	8.4	3005	0.59	0.63	0.71

Note- All values are gross capacities and do not include indoor coil blower motor heat deduction.

## CHP26-030 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
875	415	35.7	10.5	2320	27.7	8.1	1980	19.5	5.7	1665	12.8	3.7	1185	7.1	2.0	910
1000	470	36.1	10.6	2335	28.0	8.2	1995	19.8	5.8	1675	13.0	3.8	1195	7.2	2.1	915
1125	530	36.4	10.7	2360	28.3	8.3	2015	19.9	5.9	1690	13.1	3.9	1205	7.2	2.1	925

Note- Heating capacities include the effect of defrost cycles in the temperature range where they occur.

## CHP26-036 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
			cfm	L/s	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW
63°F (17°C)	1050	495	33.0	9.7	2655	0.77	0.88	1.00	32.2	9.4	2710	0.79	0.87	1.00	28.9	8.5	3010	0.82	0.88	1.00	25.9	7.6	3395	0.86	0.87	1.00
	1200	565	33.7	9.9	2670	0.78	0.89	1.00	32.9	9.6	2725	0.80	0.89	1.00	29.5	8.6	3030	0.83	0.90	1.00	26.4	7.7	3420	0.87	0.89	1.00
	1350	635	34.2	10.0	2700	0.86	0.97	1.00	33.4	9.8	2755	0.88	0.96	1.00	30.0	8.8	3060	0.91	0.97	1.00	26.8	7.9	3455	0.96	0.95	1.00
67°F (19°C)	1050	495	35.3	10.3	2745	0.56	0.70	0.83	33.3	9.8	2805	0.58	0.72	0.86	33.0	9.7	3100	0.59	0.74	0.88	30.1	8.8	3500	0.61	0.75	0.90
	1200	565	36.1	10.6	2765	0.57	0.71	0.86	34.0	10.0	2825	0.58	0.73	0.88	33.6	9.8	3120	0.60	0.75	0.91	30.7	9.0	3525	0.62	0.77	0.92
	1350	635	36.6	10.7	2795	0.62	0.77	0.89	34.5	10.1	2850	0.64	0.79	0.92	34.1	10.0	3150	0.66	0.81	0.94	31.1	9.1	3560	0.68	0.83	0.95
71°F (22°C)	1050	495	40.6	11.9	2735	0.49	0.53	0.61	39.4	11.5	2790	0.51	0.55	0.63	36.9	10.8	3135	0.52	0.56	0.65	34.0	10.0	3585	0.53	0.58	0.68
	1200	565	41.4	12.1	2755	0.50	0.54	0.62	40.2	11.8	2810	0.51	0.56	0.64	37.6	11.0	3160	0.53	0.57	0.66	34.7	10.2	3610	0.54	0.59	0.69
	1350	635	42.0	12.3	2780	0.55	0.58	0.64	40.8	12.0	2840	0.56	0.60	0.67	38.2	11.1	3190	0.58	0.62	0.69	35.2	10.3	3645	0.59	0.63	0.72

Note- All values are gross capacities and do not include indoor coil blower motor heat deduction.

## CHP26-036 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1050	495	42.4	12.4	2720	32.9	9.6	2315	23.2	6.8	1940	15.3	4.5	1375	8.4	2.4	1045
1200	565	43.0	12.5	2740	33.3	9.8	2335	23.5	6.9	1955	15.5	4.5	1385	8.5	2.5	1050
1350	635	43.3	12.7	2765	33.6	9.9	2355	23.7	7.0	1975	15.6	4.6	1395	8.6	2.5	1060

Note- Heating capacities include the effect of defrost cycles in the temperature range where they occur.

# RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

## CHP26-042 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
cfm	L/s	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1250	590	38.7	11.3	3310	0.74	0.89	1.00	36.4	10.7	3520	0.76	0.88	1.00	34.9	10.2	3695	0.78	0.89	1.00	31.1	9.1	3905	0.82	0.90	1.00
	1400	660	39.5	11.6	3335	0.75	0.91	1.00	37.1	10.9	3545	0.77	0.90	1.00	35.6	10.4	3720	0.79	0.91	1.00	31.8	9.3	3935	0.83	0.92	1.00
	1550	730	40.1	11.8	3365	0.82	0.98	1.00	37.7	11.0	3580	0.85	0.98	1.00	36.2	10.6	3755	0.87	0.98	1.00	32.2	9.4	3975	0.92	0.99	1.00
67°F (19°C)	1250	590	41.2	12.1	3390	0.57	0.70	0.84	38.7	11.3	3605	0.59	0.73	0.87	37.2	10.9	3785	0.60	0.74	0.89	33.1	9.7	4000	0.63	0.78	0.93
	1400	660	42.0	12.3	3415	0.58	0.72	0.87	39.5	11.6	3630	0.59	0.74	0.90	37.9	11.1	3810	0.61	0.76	0.92	33.8	9.9	4030	0.64	0.80	0.96
	1550	730	42.7	12.5	3450	0.63	0.78	0.91	40.1	11.8	3665	0.65	0.80	0.93	38.5	11.3	3850	0.67	0.82	0.96	34.3	10.1	4070	0.70	0.86	0.99
71°F (22°C)	1250	590	44.1	12.9	3485	0.50	0.54	0.69	41.4	12.1	3705	0.51	0.55	0.71	39.8	11.7	3890	0.53	0.57	0.73	35.4	10.4	4115	0.55	0.60	0.77
	1400	660	45.0	13.2	3510	0.50	0.55	0.70	42.3	12.4	3730	0.52	0.56	0.72	40.6	11.9	3920	0.53	0.58	0.74	36.2	10.6	4145	0.56	0.61	0.78
	1550	730	45.6	13.4	3545	0.55	0.59	0.73	42.9	12.6	3770	0.57	0.61	0.75	41.2	12.1	3955	0.59	0.63	0.77	36.7	10.8	4185	0.62	0.66	0.81

Note- All values are gross capacities and do not include indoor coil blower motor heat deduction.

## CHP26-042 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil																			
		65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW						
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW		
1250	590	48.9	14.3	3090	38.0	11.1	2635	26.8	7.8	2220	17.6	5.1	1580	9.7	2.8	1215	3.5	1.0	1215		
1400	660	48.5	14.5	3110	38.4	11.3	2655	27.1	7.9	2235	17.8	5.2	1595	9.8	2.9	1220	3.5	1.0	1220		
1550	730	50.0	14.6	3140	38.7	11.4	2680	27.3	8.0	2255	18.0	5.3	1610	9.9	2.9	1235	3.5	1.0	1235		

Note- Heating capacities include the effect of defrost cycles in the temperature range where they occur.

## CHP26-048 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
cfm	L/s	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1400	660	47.0	13.8	3420	0.74	0.89	1.00	44.2	13.0	3635	0.76	0.88	1.00	41.0	12.0	3760	0.78	0.89	1.00	38.6	11.3	4050	0.82	0.90	1.00
	1600	755	48.0	14.1	3445	0.75	0.91	1.00	45.1	13.2	3660	0.77	0.90	1.00	41.8	12.3	3785	0.79	0.91	1.00	39.4	11.5	4080	0.83	0.92	1.00
	1800	850	48.7	14.3	3475	0.82	0.98	1.00	45.8	13.4	3695	0.85	0.98	1.00	42.5	12.5	3825	0.87	0.98	1.00	40.0	11.7	4120	0.92	0.99	1.00
67°F (19°C)	1400	660	50.1	14.7	3505	0.57	0.70	0.84	47.0	13.8	3725	0.59	0.73	0.87	43.6	12.8	3855	0.60	0.74	0.89	41.1	12.0	4150	0.63	0.78	0.93
	1600	755	51.1	15.0	3530	0.58	0.72	0.87	48.0	14.1	3750	0.59	0.74	0.90	44.5	13.0	3880	0.61	0.76	0.92	41.9	12.3	4180	0.64	0.80	0.96
	1800	850	51.8	15.2	3565	0.63	0.78	0.91	48.7	14.3	3790	0.65	0.80	0.93	45.2	13.2	3920	0.67	0.82	0.96	42.5	12.5	4220	0.70	0.86	0.99
71°F (22°C)	1400	660	53.6	15.7	3600	0.50	0.54	0.69	50.3	14.7	3830	0.51	0.55	0.71	46.7	13.7	3960	0.53	0.57	0.73	43.9	12.9	4265	0.55	0.60	0.77
	1600	755	54.6	16.0	3625	0.50	0.55	0.70	51.4	15.1	3855	0.52	0.56	0.72	47.6	14.0	3990	0.53	0.58	0.74	44.8	13.1	4295	0.56	0.61	0.78
	1800	850	55.5	16.3	3665	0.55	0.59	0.73	52.1	15.3	3895	0.57	0.61	0.75	48.3	14.2	4030	0.59	0.63	0.77	45.5	13.3	4340	0.62	0.66	0.81

Note- All values are gross capacities and do not include indoor coil blower motor heat deduction.

## CHP26-048 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil																			
		65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW						
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW		
1400	660	60.0	17.6	3720	46.5	13.6	3175	32.8	9.6	2665	21.6	6.3	1890	11.9	3.4	1445	3.5	1.0	1445		
1600	755	60.6	17.8	3750	47.0	13.8	3195	33.2	9.7	2685	21.8	6.4	1905	12.0	3.5	1455	3.5	1.0	1455		
1800	850	61.2	17.9	3785	47.4	13.9	3225	33.5	9.8	2705	22.0	6.5	1920	12.1	3.6	1465	3.5	1.0	1465		

Note- Heating capacities include the effect of defrost cycles in the temperature range where they occur.

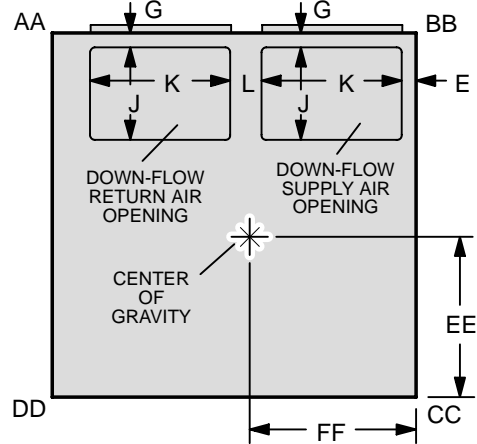
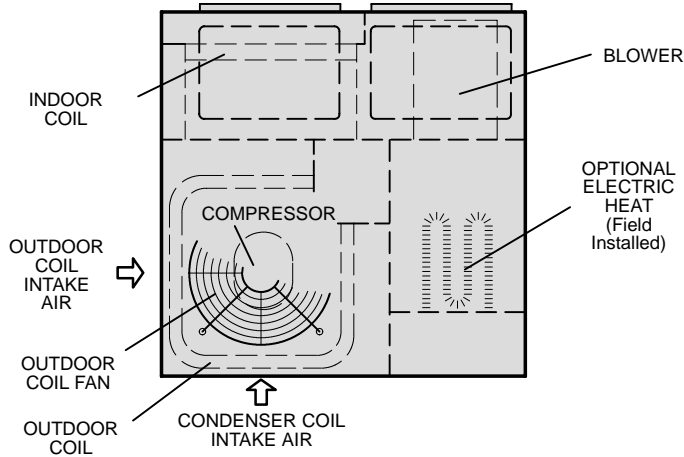
# DIMENSIONS - inches (mm)

## CORNER WEIGHTS — lbs. (kg)

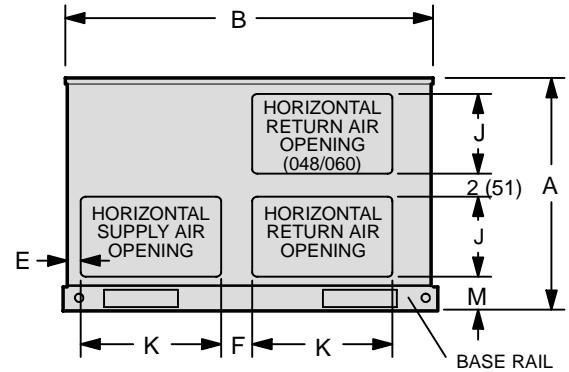
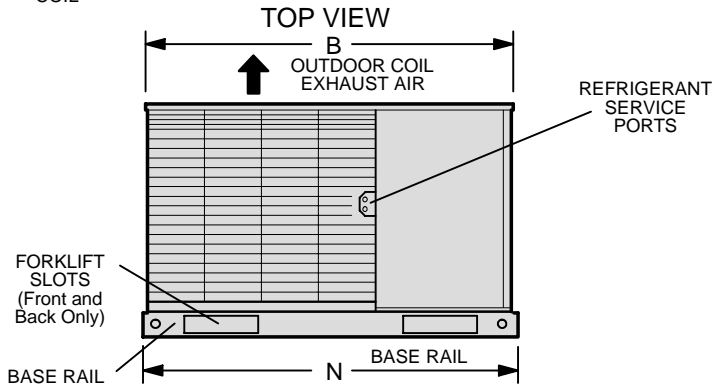
Model Number	AA		BB		CC		DD	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
CHP26-024	78	35	57	26	62	28	83	38
CHP26-030	82	37	61	28	67	30	90	41
CHP26-036	88	40	65	29	71	32	94	43
CHP26-042	96	44	71	32	78	35	103	47
CHP26-048	122	55	89	40	97	44	130	59

## CENTER OF GRAVITY — inches (mm)

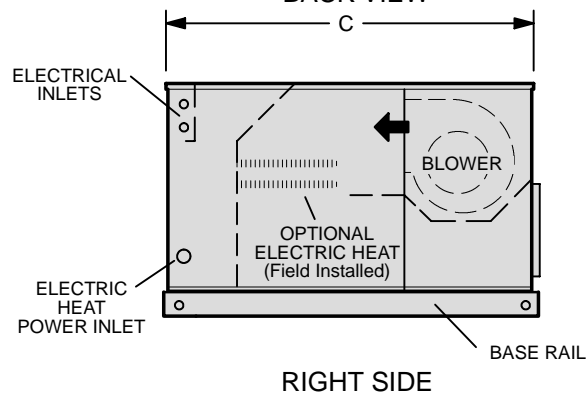
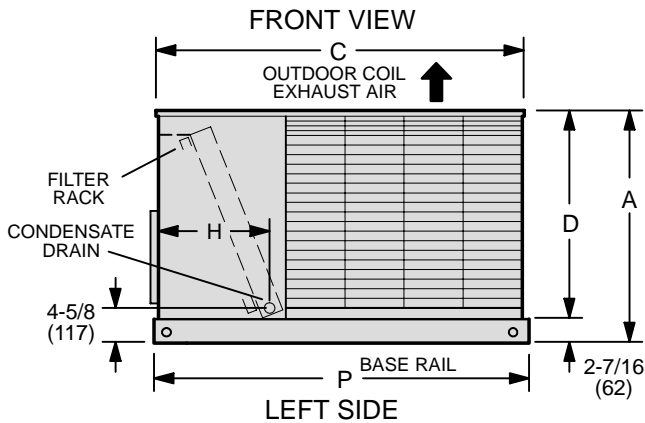
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	inch	mm	inch	mm
CHP26-024	21-7/8	556	26-1/2	673
CHP26-030	21-7/8	556	26-1/2	673
CHP26-036	21-7/8	556	26-1/2	673
CHP26-042	21-7/8	556	26-1/2	673
CHP26-048	23-3/4	603	31-1/4	794



TOP VIEW BASE SECTION



BACK VIEW



RIGHT SIDE

Model Number	A		B		C		D		E		F		G	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
CHP26-024, 030, 036	27-11/16	703	45-5/8	1159	45-5/8	1159	25-1/4	641	1-13/16	46	4	102	1-7/8	48
CHP26-042	31-11/16	805	45-5/8	1159	45-5/8	1159	29-1/4	743	1-13/16	46	4	102	1-7/8	48
CHP26-048	33-11/16	856	54-11/16	1389	49-5/8	1260	31-7/16	799	1-1/8	29	6-1/4	159	2-1/4	57

Model Number	H		J		K		L		M		N		P	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
CHP26-024, 030, 036	15-5/8	397	11-1/2	292	17-1/2	445	4	102	5	127	46-3/8	1179	46-3/8	1179
CHP26-042	15-5/8	397	11-1/2	292	17-1/2	445	4	102	5	127	46-3/8	1179	46-3/8	1179
CHP26-048	17-1/8	435	12	305	21-1/2	546	5-5/8	143	4-1/8	105	55-1/4	1403	50-1/2	1283