



**1.5- TO 5-TON SPLIT SYSTEMS
HEAT PUMPS
HIGH EFFICIENCY, SINGLE & THREE PHASE**

QUICK REFERENCE GUIDE

		Single Phase Systems										Three Phase Systems							
		1-Stage Compressor, 15 SEER						2-Stage Compressor				1-Stage Compressor, 15 SEER				2-Stage Compressor			
Nominal Size (tons)		1.5	2	2.5	3	3.5	4	5	2	3	4	5	3	3.5	4	5	3	4	5
Efficiency (SEER)		16.0	16.0	15.0	15.2	15.5	15.0	15.0	15.5	15.5	16.0	15.5	15.0	15.0	15.0	15.0	15.5	16.0	15.5
Heating Efficiency (HSPF)		8.5	9.0	9.0	8.7	9.0	9.2	8.5	8.5	9.0	9.0	8.5	8.5	8.5	8.5	8.5	9.0	9.0	8.5
Fan Performance																			
Supply (CFM)		600	800	1,000	1,200	1,400	1,600	2,000	800	1,200	1,600	2,000	1,200	1,400	1,600	2,000	1,200	1,600	2,000
Max ESP		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Motor HP		1/2	1/2	1/2	1/2	1	1	1	1/2	1/2	1	1	1/2	1	1	1	1/2	1	1
Blower Motor FLA		4.1	4.1	4.1	4.1	7.6	7.6	7.6	4.1	4.1	7.6	7.6	4.1	7.6	7.6	7.6	4.1	7.6	7.6
Cooling Capacity																			
Total (MBH)		20.2	25.6	30.2	35.8	45.0	51.0	61.5	25.4	38.0	51.0	61.0	35.6	44.5	50.0	60.5	38.0	51.0	61.0
Sensible (MBH)		15.8	20.2	24.8	28.3	35.6	39.3	46.1	19.8	29.6	39.8	45.8	28.1	34.7	39.0	45.4	29.6	39.8	45.8
EAT (DB/WB)		80/67	80/67	80/67	80/67	80/67	80/67	80/67	80/67	80/67	80/67	80/67	80/67	80/67	80/67	80/67	80/67	80/67	80/67
Compressor Stages		1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	2	2	2
Heating Capacity																			
Total (MBH)		16.3	20.9	25.5	31.4	41.6	45.8	54.6	21.3	32.7	43.3	51.4	34.0	41.8	45.4	53.5	32.7	43.3	51.4
EAT (DB)		70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Outdoor Temp (DB/WB)		47/43	47/43	47/43	47/43	47/43	47/43	47/43	47/43	47/43	47/43	47/43	47/43	47/43	47/43	47/43	47/43	47/43	47/43
CU Model #		XP14-018	XP14-024	XP14-030	XP14-036	XP14-042	XP14-048	XP14-060	XP16-024	XP16-036	XP16-048	XP16-060	TPA036H	TPA042H	TPA048H	TPA060H	SPB036	SPB048	SPB060
Suction Line Connection (in)		3/4	3/4	3/4	7/8	7/8	7/8	1-1/8	3/4	7/8	7/8	1-1/8	7/8	7/8	7/8	1-1/8	7/8	7/8	1-1/8
Liquid Line Connection (in)		3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Shipping Weight (lbs)		197	213	213	236	310	312	339	222	273	294	353	212	257	262	307	273	294	353
Height (in)		31.0	39.0	39.0	35.0	39.0	39.0	45.0	35.0	35.0	35.0	45.0	35.3	39.3	39.3	45.3	35.0	35.0	45.0
Width (in)		30.5	30.5	30.5	30.5	35.5	35.5	35.5	27.0	35.5	35.5	35.5	28.3	33.3	33.3	32.3	35.5	35.5	35.5
Depth (in)		35.0	35.0	35.0	35.0	39.5	39.5	39.5	28.0	39.5	39.5	39.5	28.3	33.3	33.3	32.3	39.5	39.5	39.5
230V	FLA	10.1	14.6	14.2	15.2	19.7	23.6	28.2	12.4	17	23.0	29.9	11.4	15.3	15.5	17.7	13.2	15.3	20.4
	MCA	12.3	17.9	17.4	18.7	24.2	29.0	34.8	15.3	20.8	28.3	36.8	13.1	18.6	18.9	21.8	16.2	18.6	24.8
	MOCP	20.0	30.0	30.0	30.0	40.0	50.0	60.0	25	35	45	60	20	30	30	35	25	30	40
460V	FLA	----	----	----	----	----	----	----	----	----	----	----	6.6	7.0	7.2	8.8	----	----	----
	MCA	----	----	----	----	----	----	----	----	----	----	----	8.1	8.4	8.8	10.7	----	----	----
	MOCP	----	----	----	----	----	----	----	----	----	----	----	15	15	15	15	----	----	----
AHU Model #		CBX27UH-018	CBX27UH-024	CBX27UH-030	CBX27UH-036	CBX27UH-042	CBX27UH-048	CBX27UH-060	CBX27UH-024	CBX27UH-036	CBX27UH-048	CBX27UH-060	CBX27UH-036	CBX27UH-042	CBX27UH-048	CBX27UH-060	CBX27UH-036	CBX27UH-048	CBX27UH-060
Shipping Weight (lbs)		148	148	159	159	194	194	216	148	159	194	216	159	194	194	216	159	194	216
Height (in)		51	51	52	52	60	60	64	51	52	60	64	52	60	60	64	52	60	64
Width (in)		22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Depth (in)		21	21	23	23	25	25	25	21	23	25	25	23	25	25	25	23	25	25

Schedule notes for Model XP14 (Std features):
 1. Auto reset high- and low-pressure switches
 2. High-capacity liquid line drier
 3. Reversing valve
 4. Compressor sound dampening cover
 5. Crankcase heater (Std on 3-5 ton models)
 6. Defrost control
 7. Anti-short-cycle control
 8. Steel louvered panels for hail protection
 9. Hinged panels for ease of maintenance

XP14 Optional features:
 1. Low ambient cut out switch at 35°F
 2. Low ambient control to 30°F and freeze-stat
 3. Outdoor thermostat kit to lockout electric heat
 4. Crankcase heater (Optional on 1.5-2.5 ton models)
 *Standard and optional features for AHU on reverse.
Schedule notes for Model XP16 (Std features):
 1. Two-stage compressor
 2. Auto reset high and low pressure switches
 3. Auto reset discharge temperature switch

4. High-capacity liquid line drier
 5. Reversing valve
 6. Defrost control
 7. Anti-short-cycle control
 8. Crankcase heater
 9. Steel louvered panels for hail protection
 10. Hinged panels for ease of maintenance
XP16 Optional features:
 1. Low ambient cut out switch at 35°F
 2. Low ambient control to 30°F and freeze-stat

3. Outdoor thermostat kit to lockout electric heat
 4. Indoor Blower Speed Relay kit to provide optimum humidity conditions by automatically reducing indoor blower speed during continuous fan or 1st stage compressor operation
Schedule notes for Model TPAH (Std features):
 1. Auto reset high- and low-pressure switches
 2. High-capacity liquid line drier
 3. Reversing valve
 4. Compressor sound dampening cover

5. Crankcase heater
 6. Defrost control
 7. Anti-short-cycle control
 8. Coil guard
TPAH Optional features:
 1. Low ambient cut out switch at 35°F
 2. Low ambient control to 30°F and freeze-stat
 3. Low ambient control to 0°F and freeze-stat (208/230V only)
 4. Outdoor thermostat kit to lockout electric heat
 5. Hail guard

Schedule notes for Model SPB (Std features):
 1. Two-stage compressor
 2. Auto reset high- and low-pressure switches
 3. Auto reset discharge temperature switch
 4. High-capacity liquid line drier
 5. Reversing valve
 6. Defrost control
 7. Anti-short-cycle control
 8. Crankcase heater
 9. Steel louvered panels for hail protection
 10. Hinged panels for ease of maintenance

SPB Optional features:
 1. Low ambient cut out switch at 35°F
 2. Low ambient control to 30°F and freeze-stat
 3. Low ambient control to 0°F and freeze-stat
 4. Outdoor thermostat kit to lockout electric heat
 5. Indoor Blower Speed Relay kit to provide optimum humidity conditions by automatically reducing indoor blower speed during continuous fan or 1st stage compressor operation



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AHU Model CBX27UH Electrical Data

Nominal Size (Tons)		208V / 240V, Single-Phase							208V / 240V, Three-Phase*					460V, Three-Phase*			
		1.5	2	2.5	3	3.5	4	5	2.5	3	3.5	4	5	3	3.5	4	5
No heat	MCA	5	5	5	5	10	10	10	5	5	10	10	10	2.6	---	5	5
	MOCP	15	15	15	15	15	15	15	15	15	15	15	15	15	---	15	15
2.5 kW 1 stage	kW	1.9 / 2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	MBH	6.4 / 8.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	MCA	16 / 18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	MOCP	20 / 20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4 kW 1 stage	kW	3.0 / 4.0	3.4 / 4.0	3.0 / 4.0	3.0 / 4.0	3.0 / 4.0	3.0 / 4.0	3.0 / 4.0	---	---	---	---	---	---	---	---	---
	MBH	10.3 / 13.7	10.3 / 13.7	10.3 / 13.7	10.3 / 13.7	10.3 / 13.7	10.3 / 13.7	10.3 / 13.7	---	---	---	---	---	---	---	---	---
	MCA	23 / 26	23 / 26	23 / 26	23 / 26	28 / 30	28 / 30	28 / 30	---	---	---	---	---	---	---	---	---
	MOCP	25 / 30	25 / 30	25 / 30	25 / 30	30 / 30	30 / 30	30 / 30	---	---	---	---	---	---	---	---	---
5 kW 1 stage	kW	3.8 / 5.0	3.8 / 5.0	3.8 / 5.0	3.8 / 5.0	3.8 / 5.0	3.8 / 5.0	3.8 / 5.0	---	---	---	---	---	---	---	---	---
	MBH	12.8 / 17.1	12.8 / 17.1	12.8 / 17.1	12.8 / 17.1	12.8 / 17.1	12.8 / 17.1	12.8 / 17.1	---	---	---	---	---	---	---	---	---
	MCA	28 / 31	28 / 31	28 / 31	28 / 31	32 / 36	32 / 36	32 / 36	---	---	---	---	---	---	---	---	---
	MOCP	30 / 35	30 / 35	30 / 35	30 / 35	35 / 40	35 / 40	35 / 40	---	---	---	---	---	---	---	---	---
6 kW 1 stage	kW	4.5 / 6.0	4.5 / 6.0	4.5 / 6.0	4.5 / 6.0	4.5 / 6.0	4.5 / 6.0	4.5 / 6.0	---	---	---	---	---	---	---	---	---
	MBH	15.4 / 20.5	15.4 / 20.5	15.4 / 20.5	15.4 / 20.5	15.4 / 20.5	15.4 / 20.5	15.4 / 20.5	---	---	---	---	---	---	---	---	---
	MCA	32 / 36	32 / 36	32 / 36	32 / 36	37 / 41	37 / 41	37 / 41	---	---	---	---	---	---	---	---	---
	MOCP	35 / 40	35 / 40	35 / 40	35 / 40	40 / 45	40 / 45	40 / 45	---	---	---	---	---	---	---	---	---
8 kW 1 stage	kW	6.0 / 8.0	6.0 / 8.0	6.0 / 8.0	6.0 / 8.0	6.0 / 8.0	6.0 / 8.0	6.0 / 8.0	6.0 / 8.0	6.0 / 8.0	6.0 / 8.0	6.0 / 8.0	6.0 / 8.0	---	---	---	---
	MBH	20.5 / 27.3	20.5 / 27.3	20.5 / 27.3	20.5 / 27.3	20.5 / 27.3	20.5 / 27.3	20.5 / 27.3	20.5 / 27.3	20.5 / 27.3	20.5 / 27.3	20.5 / 27.3	20.5 / 27.3	---	---	---	---
	MCA	41 / 47	41 / 47	41 / 47	41 / 47	46 / 51	46 / 51	46 / 51	26 / 29	26 / 29	30 / 33	30 / 33	30 / 33	---	---	---	---
	MOCP	45 / 50	45 / 50	45 / 50	45 / 50	50 / 60	50 / 60	50 / 60	30 / 30	30 / 30	30 / 35	30 / 35	30 / 35	---	---	---	---
9 kW 2 stage	kW	6.8 / 9.0	6.8 / 9.0	6.8 / 9.0	6.8 / 9.0	6.8 / 9.0	6.8 / 9.0	6.8 / 9.0	---	---	---	---	---	---	---	---	---
	MBH	23.1 / 30.7	23.1 / 30.7	23.1 / 30.7	23.1 / 30.7	23.1 / 30.7	23.1 / 30.7	23.1 / 30.7	---	---	---	---	---	---	---	---	---
	MCA	46 / 52	46 / 52	46 / 52	46 / 52	50 / 56	50 / 56	50 / 56	---	---	---	---	---	---	---	---	---
	MOCP	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	---	---	---	---	---	---	---	---	---
10 kW 2 stage-1ph 1 stage-3ph	kW	7.5 / 10.0	7.5 / 10.0	7.5 / 10.0	7.5 / 10.0	---	---	---	7.5 / 10.0	7.5 / 10.0	7.5 / 10.0	7.5 / 10.0	7.5 / 10.0	9.2	---	9.2	9.2
	MBH	25.6 / 34.1	25.6 / 34.1	25.6 / 34.1	25.6 / 34.1	---	---	---	25.6 / 34.1	25.6 / 34.1	25.6 / 34.1	25.6 / 34.1	25.6 / 34.1	31.4	---	31.4	31.4
	MCA	50 / 57	50 / 57	50 / 57	50 / 57	---	---	---	31 / 35	31 / 35	36 / 40	36 / 40	36 / 40	17	---	19	19
	MOCP	50 / 60	50 / 60	50 / 60	50 / 60	---	---	---	35 / 35	35 / 35	40 / 40	40 / 40	40 / 40	20	---	20	20
12.5 kW 2 stage	kW	---	---	9.4 / 12.5	9.4 / 12.5	9.4 / 12.5	9.4 / 12.5	9.4 / 12.5	---	---	---	---	---	---	---	---	---
	MBH	---	---	32.0 / 42.6	32.0 / 42.6	32.0 / 42.6	32.0 / 42.6	32.0 / 42.6	---	---	---	---	---	---	---	---	---
	MCA	---	---	62 / 70	62 / 70	66 / 75	66 / 75	66 / 75	---	---	---	---	---	---	---	---	---
	MOCP	---	---	70 / 70	70 / 70	80 / 80	80 / 80	70 / 80	---	---	---	---	---	---	---	---	---
15 kW 2 stage-1ph 1 stage-3ph	kW	---	---	11.3 / 15.0	11.3 / 15.0	11.3 / 15.0	11.3 / 15.0	11.3 / 15.0	11.3 / 15.0	11.3 / 15.0	11.3 / 15.0	11.3 / 15.0	11.3 / 15.0	13.5	---	13.5	13.5
	MBH	---	---	38.4 / 51.2	38.4 / 51.2	38.4 / 51.2	38.4 / 51.2	38.4 / 51.2	38.4 / 51.2	38.4 / 51.2	38.4 / 51.2	38.4 / 51.2	38.4 / 51.2	47.0	---	47.0	47.0
	MCA	---	---	73 / 83	73 / 83	77 / 88	77 / 88	77 / 88	44 / 50	44 / 50	49 / 55	49 / 55	49 / 55	24	---	26	26
	MOCP	---	---	80 / 90	80 / 90	80 / 90	80 / 90	80 / 90	45 / 50	45 / 50	50 / 60	50 / 60	50 / 60	25	---	30	30
20 kW 2 stage	kW	---	---	---	15.0 / 20.0	15.0 / 20.0	15.0 / 20.0	15.0 / 20.0	---	15.0 / 20.0	15.0 / 20.0	15.0 / 20.0	15.0 / 20.0	---	---	18.4	18.4
	MBH	---	---	---	51.2 / 68.2	51.2 / 68.2	51.2 / 68.2	51.2 / 68.2	---	51.2 / 68.2	51.2 / 68.2	51.2 / 68.2	51.2 / 68.2	---	---	62.7	62.7
	MCA	---	---	---	96 / 109	100 / 114	100 / 114	100 / 114	---	57 / 65	62 / 70	62 / 70	62 / 70	---	---	34	34
	MOCP	---	---	---	100 / 125	125 / 125	125 / 125	125 / 125	---	60 / 70	70 / 70	70 / 70	70 / 70	---	---	35	35
25 kW 3 stage-1ph 2 stage-3ph	kW	---	---	---	---	18.8 / 25.0	18.8 / 25.0	18.8 / 25.0	---	---	18.8 / 25.0	18.8 / 25.0	18.8 / 25.0	---	---	23.0	23.0
	MBH	---	---	---	---	64.1 / 85.3	64.1 / 85.3	64.1 / 85.3	---	---	64.1 / 85.3	64.1 / 85.3	64.1 / 85.3	---	---	78.3	78.3
	MCA	---	---	---	---	123 / 140	123 / 140	123 / 140	---	---	62 / 85	75 / 85	75 / 85	---	---	41	41
	MOCP	---	---	---	---	125 / 150	125 / 150	125 / 150	---	---	70 / 90	80 / 90	80 / 90	---	---	45	45

Note: Electrical data is based on single point power.
*Blower motor is single phase. Optional electric heat is three phase.

Schedule notes for Model CBX27UH (Std features):

1. Corrosion-resistant drain pans
2. ECM blower motor
3. TXV

CBX27UH Optional Features:

1. Germicidal UVC light kit
2. 7-day programmable thermostat with touch screen (ComfortSense 7000)
3. Single point power kit (needed only for 12.5 kW and larger heaters)
4. Circuit breaker for electric heat
5. Downflow conversion kit



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