

# QUICK REFERENCE GUIDE

## 1.5- to 5-Ton Split Systems Heat Pumps - High Efficiency, Single & Three Phase

	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
<b>Fan Performance</b>																		
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
<b>Cooling Capacity</b>																		
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
<b>Heating Capacity</b>																		
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
<b>CU Model #</b>	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
	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
	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
460V	FLA	----	----	----	----	----	----	----	----	----	----	6.6	7.0	7.2	8.8	----	----	----
	MCA	----	----	----	----	----	----	----	----	----	----	8.1	8.4	8.8	10.7	----	----	----
	MOCP	----	----	----	----	----	----	----	----	----	----	15	15	15	15	----	----	----
<b>AHU Model #</b>	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 freezestat
  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

**XP16 Optional features:**

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 freezestat

**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
- Schedule notes for Model TPAH (Std features):**
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 SPB (Std features):**

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 freezestat
  3. Low ambient control to 0°F and freezestat (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. 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 freezestat
3. Low ambient control to 0°F and freezestat
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



# QUICK REFERENCE GUIDE

## 1.5- to 5-Ton Split Systems Heat Pumps - High Efficiency, Single & Three Phase

		AHU Model CBX27UH Electrical Data															
		208V / 240V, Single-Phase							208V / 240V, Three-Phase*					460V, Three-Phase*			
Nominal Size (tons)		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
	MOC	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	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	MOC	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	---	---	---	---	---	---	---	---	---
	MOC	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	---	---	---	---	---	---	---	---	---
	MOC	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	---	---	---	---	---	---	---	---	---
	MOC	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	---	---	---	---
	MOC	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	---	---	---	---	---	---	---	---	---
	MOC	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
	MOC	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	---	---	---	---	---	---	---	---	---
	MOC	---	---	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
	MOC	---	---	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
	MOC	---	---	---	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
	MOC	---	---	---	---	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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