

QUICK REFERENCE GUIDE

3- to 5-Ton Split Systems Air Conditioners, Furnaces & Coils - Standard Efficiency, Three Phase

Nominal Size (tons)	One-Stage Compressor								Two-Stage Compressor					
	3	3	3.5	3.5	4	4	5	5	3	3	4	4	5	5
Efficiency (SEER)	15.0	16.0	14.7	15.0	14.5	14.5	14.5	14.5	15.5	15.0	15.5	15.5	15.5	15.7
Supply (CFM)	1,200	1,200	1,400	1,400	1,600	1,600	2,000	2,000	1,200	1,200	1,600	1,600	2,000	2,000
EAT (DB/WB) (°F)	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
Total (MBH)	34.9	35.4	42.9	42.5	50.7	50.2	60.6	60.2	34.1	34.1	49.7	49.2	62.6	62.8
Sensible (MBH)	27.5	28.2	34.8	34.0	40.4	39.4	48.5	48.5	26.9	26.9	39.2	38.1	49.5	49.2
Stages of Cooling	1	1	1	1	1	1	1	1	2	2	2	2	2	2
Coil Model #	CX34-36B-6F	CX34-43B-6F	CX34-43B-6F	CX34-43C-6F	CX34-49C-6F	CX34-49C-6F	CX34-62C-6F	CX34-60D-6F	CX34-36B-6F	CX34-36C-6F	CX34-49C-6F	CX34-49C-6F	CX34-62C-6F	CX34-62D-6F
Furnace Model #	EL296UH070XV36B	EL296UH090XV48C	EL296UH090XV48C	EL296UH110XV60C	EL296UH090XV48C	EL296UH110XV60C	EL296UH110XV60C	EL296UH135XV60D	EL296UH070XV36B	EL296UH090XV48C	EL296UH090XV48C	EL296UH110XV60C	EL296UH110XV60C	EL296UH135XV60D
ESP (in wg)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.5	0.5	0.5	0.5	0.5	0.5
Blower Fan HP	1/2	3/4	3/4	1	3/4	1	1	1	1/2	3/4	3/4	1	1	1
Blower Fan FLA	7.7	10.1	10.1	12.8	10.1	12.8	12.8	12.8	7.7	10.1	10.1	12.8	12.8	12.8
Input (High/Low) (MBH)	66/43	88/57	88/57	110/72	88/57	110/72	110/72	132/86	66/43	88/57	88/57	110/72	110/72	132/86
Output (High/Low) (MBH)	62/41	85/55	85/55	106/70	85/55	106/70	106/70	126/84	62/41	85/55	85/55	106/70	106/70	126/84
Temp Rise (°F)	50.4	68.7	53.7	69.9	47.8	62.9	50.9	57.3	50.4	68.7	47.8	62.9	50.9	57.3
AFUE	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%
Stages of Heating	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Flue In/Out Connection (in)	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
120V	MCA	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12
	MOCP	15	15	15	20	15	20	20	15	15	15	20	20	20
Combined Coil & Furnace														
Height (in)	58	61	61	61	63	63	65	63	58	58	63	63	65	63
Width (in)	18	21	21	21	21	21	21	25	18	21	21	21	21	25
Depth (in)	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Shipping Weight (lbs)	182	291	291	299	309	317	327	330	182	213	235	246	251	264
Condensing Model #	TSA036H4	TSA036H4	TSA042H4	TSA042H4	TSA048H4	TSA048H4	TSA060H4	TSA060H4	SSB036H4	SSB036H4	SSB048H4	SSB048H4	SSB060H4	SSB060H4
Sound Rating (dBA)	76	76	78	78	78	78	80	80	74	74	74	74	74	74
Suction Line Size (in)	7/8	7/8	7/8	7/8	7/8	7/8	1-1/8	1-1/8	7/8	7/8	7/8	7/8	1-1/8	1-1/8
Liquid Line Size (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
230V	MCA	18.7	18.7	18.2	18.2	18.8	18.8	21.8	21.8	16.2	16.2	20.3	20.3	22.4
	MOCP	30	30	30	30	30	30	35	35	25	25	30	30	35
	Compressor RLA	9	14.1	13.2	13.2	13.7	13.7	16.0	16.0	11.6	11.6	14	14	16.5
	Fan FLA	1.1	1.1	1.7	1.7	1.7	1.7	1.8	1.8	1.7	1.7	2.8	2.8	1.8
460V	MCA	7.7	7.7	8.5	8.5	8.8	8.8	10.7	10.7	8.0	8.0	9.1	9.1	10.1
	MOCP	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	10.0	10.0	15.0	15.0	20.0
	Compressor RLA	5.6	5.6	6.0	6.0	6.2	6.2	7.8	7.8	5.7	5.7	6.4	6.4	7.2
Fan FLA	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	1.0
Shipping Weight (lbs)	164	164	198	198	221	221	238	238	243	243	268	268	332	332

Schedule Notes for TSA*H4 Condensing Units (Std Features):
 1. Crankcase heater, manual reset high-pressure switch, auto reset low-pressure switch

TSA*H4 Optional Features:
 1. Compressor sound cover
 2. Hail guard
 3. Low ambient cut-out switch to prevent compressor operation below 35°F
 4. Low ambient cooling kit to 30°F and freezestat
 5. Low ambient cooling kit to 0°F (208/230V only) and freezestat
 6. Time-off control kit to prevent compressor short cycling

Schedule Notes for EL296UHV / CX34 Cased Coil (Std Features):
 1. Two-stage burner
 2. Variable-speed ECM blower motor
 3. Thermal expansion valve
 4. Meets CA low NOx standards

EL296UHV Optional Features:
 1. Concentric vent kit (1.5" on 70MBH, 2" or 3" on 90 MBH, 2" or 3" on 110 MBH, 3" on 135 MBH)
 2. 7-day programmable thermostat with touchscreen interface (ComfortSense® 7000)

Schedule Notes for SSB Condensing Units (Std Features):
 1. Two-stage compressor for more efficient part load control
 2. Crankcase heater, auto reset high- and low-pressure switches, auto reset discharge temperature switch
 3. High-capacity liquid line drier
 4. Steel louvered coil panels for hail protection
 5. Hinged coil panels for ease of maintenance

SSB Optional Features:
 1. Low ambient cut-out switch to prevent compressor operation below 35°F
 2. Low ambient cooling kit to 30°F and freezestat
 3. Low ambient cooling kit to 0°F (208/230V only) and freezestat
 4. Indoor blower speed relay kit to provide optimum humidity conditions by automatically reducing indoor blower speed during continuous fan or first-stage compressor operation



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Nominal Size (tons)		PSC Blower Motor						ECM Blower Motor							
		3	3.5	3.5	4	5	5	3	3	3.5	3.5	4	4	5	5
Efficiency (SEER)		13.0	13.0	13.0	13.5	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.5	13.0	13.0
Supply (CFM)		1,200	1,400	1,400	1,600	2,000	2,000	1,200	1,200	1,400	1,400	1,600	1,600	2,000	2,000
EAT (DB/WB) (°F)		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
Total (MBH)		37.2	42.4	42.0	50.3	63.7	63.2	37.0	36.8	42.4	59.7	49.7	50.6	62.9	63.0
Sensible (MBH)		29.4	33.1	32.3	39.1	48.9	48.3	29.0	28.7	33.2	80	38.4	40.1	48.0	48.1
Stages of Cooling		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Coil Model #		CX34-43B-6F	CX34-43B-6F	CX34-43C-6F	CX34-49C-6F	CX34-49C-6F	CX34-60D-6F	CX34-43B-6F	CX34-43B-6F	CX34-43C-6F	CX34-43C-6F	CX34-43C-6F	CX34-60D-6F	CX34-60D-6F	CX34-60D-6F
Furnace Model #		ML180UH090P36B	ML180UH090P48B	ML180UH110P48C	ML180UH110P48C	ML180UH110P60C	ML180UH135P60D	ML180UH070E36B	ML180UH090E48B	ML180UH090E60C	ML180UH110E60C	ML180UH110E60C	ML180UH135E60D	ML180UH110E60C	ML180UH135E60D
ESP (in wg)		0.50	0.50	0.50	0.50	0.45	0.45	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
Blower Fan HP		1/3	1/2	1/2	1/2	1	1	1/2	3/4	1	1	1	1	1	1
Blower Fan FLA		6.1	8.2	8.2	8.2	10.0	11.5	6.8	8.4	10.9	10.9	10.9	10.9	10.9	10.9
Input (MBH)		88	88	110	110	110	132	66	88	88	110	110	132	110	132
Output (MBH)		71	71	89	89	89	107	53	72	72	90	90	107	90	107
Temp Rise (°F)		54.7	46.2	61.0	49.8	41.9	50.7	42.1	58.1	46.4	59.7	51.0	57.5	43.3	51.2
AFUE		80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%
Stages of Heating		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Flue Connection (in)		4	4	4	4	4	4	4	4	4	4	4	4	4	4
120 V	MCA	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12
	MOCP	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Combined Coil & Furnace															
Height		62	62	62	64	64	60	62	62	62	62	62	60	60	60
Width (in)		18	18	21	21	21	25	18	18	21	21	21	25	21	25
Depth (in)		29	29	29	29	29	29	29	29	29	29	29	29	29	29
Shipping Weight (lbs)		191	243	214	223	233	240	232	202	224	232	232	244	226	244
Condensing Model #		TSA036S4	TSA042S4	TSA042S4	TSA048S4	TSA060S4	TSA060S4	TSA036S4	TSA036S4	TSA042S4	TSA042S4	TSA048S4	TSA048S4	TSA060S4	TSA060S4
Sound Rating (dB)		76	80	80	80	80	80	76	76	80	80	80	80	80	80
Suction Line Size (in)		7/8	7/8	7/8	7/8	1-1/8	1-1/8	7/8	7/8	7/8	7/8	7/8	7/8	1-1/8	1-1/8
Liquid Line Size (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
230 V	MCA	14.2	18.6	18.6	18.8	21.3	21.3	14.2	14.5	18.6	18.6	18.8	18.8	21.3	21.3
	MOCP	20	30	30	30	35	35	20	20	30	30	30	30	35	35
	Compressor RLA	10.4	13.5	13.5	13.7	15.6	15.6	10.4	10.4	13.5	13.5	13.7	13.7	15.6	15.6
	Fan FLA	1.1	1.7	1.7	1.7	1.7	1.7	1.1	1.1	1.7	1.7	1.7	1.7	1.7	1.7
460 V	MCA	7.8	8.4	8.4	8.8	10.7	10.7	7.8	7.8	8.4	8.4	8.8	8.8	10.7	10.7
	MOCP	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	Compressor RLA	5.8	6.0	6.0	6.2	7.8	7.8	5.8	5.8	6.0	6.0	6.2	6.2	7.8	7.8
	Fan FLA	0.6	1.0	1.0	1.0	1.0	1.0	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0
Shipping Weight (lbs)		135	178	178	194	218	218	135	135	178	178	194	197	218	218

Schedule Notes for TSA*S4 Condensing Units (Std Features):

1. Crankcase heater, manual reset high-pressure switch

TSA*S4 Optional Features:

1. Compressor sound cover
2. Hail guard
3. Low ambient cut-out switch to prevent compressor operation below 35°F
4. Low ambient cooling kit to 30°F and freeze-stat
5. Low ambient cooling kit to 0°F (208/230V only) and freeze-stat
6. Time-off control kit to prevent compressor short cycling
7. Auto reset low-pressure switch

Schedule Notes for ML180UHP / CX34 Cased Coil (Std Features):

1. Multi-speed blower motor
2. Thermal expansion valve

ML180UHP furnaces can be twinned for simultaneous operation.

ML180UHP Optional Features:

1. 7-day programmable thermostat with touch screen interface (ComfortSense® 7000)
2. Twinning kit

Schedule Notes for ML180UHE / CX34 Cased Coil (Std Features):

1. ECM blower motor
2. Thermal expansion valve

ML180UHE furnaces cannot be twinned due to ECM.

ML180UHE Optional Features:

1. 7-day programmable thermostat with touch screen interface (ComfortSense 7000)



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