HVAC Efficiency Requirements



TVA EnergyRight for Business & Industry

VARIABLE REFRIGERANT MULTI-SPLIT HEAT PUMPS							
Size (Btu/h)	Customa Tura	Minimum Efficiency Levels					
Size (btu/fi)	System Type	SEER SEER2 IEER COP*		HSPF	HSPF2		
< 65,000 Btu/h (single-phase)		14	13.3			8	6.8
≥ 65,000 Btu/h and < 135,000 Btu/h	Multi-split			14.1	3.4		
≥ 135,000 Btu/h and < 240,000 Btu/h	System			13.5	3.3		
≥ 240,000 Btu/h and < 760,000 Btu/h				12.5	3.2		

UNITARY HEAT PUMPS							
Size (Btu/h)	System Type	Minimum Efficiency Levels					
Size (blu/II)	System Type	SEER	SEER2	IEER	COP*	HSPF	HSPF2
(05,000 B) // (; , , , ,)	Split System	14	13.3			8	6.8
< 65,000 Btu/h (single-phase)	Single Package	14	13.3			8	6.7
≥ 65,000 Btu/h and < 135,000 Btu/h	0.11.0			14.1	3.4		
≥ 135,000 Btu/h and < 240,000 Btu/h	Split System & Single Package			13.5	3.3		
≥ 240,000 Btu/h and < 760,000 Btu/h	- omigio i dokago			12.5	3.2		

PACKAGED TERMINAL HEAT PUMPS & AIR CONDITIONERS (PTHP/PTAC)					
Capacity (Btu/h)	Minimum Efficiency Levels				
Capacity (Bla/11)	EER	СОР			
6,000	11.9				
7,000	11.9	3.3			
8,000	11.6				
9,000	11.3	3.2			
10,000	11	3.2			
11,000	10.7	3.1			
12,000	10.4	5.1			
13,000	10.1	3.0			
14,000	9.8	3.0			
15,000					
16,000	9.5	2.9			
17,000		2.9			
18,000					

All Non-CEE Advanced Tier HVAC units must exceed deemed program efficiency requirement tables on pages 1 - 3. Except for air-cooled chillers and ground source heat pumps, equipment must exceed only one of the efficiency categories listed in the efficiency standards tables, based on the size of the unit.

All equipment must meet AHRI standards (210/240, 320 or 340/360), be listed by a Nationally Recognized Testing Laboratory (ETL, UL, etc.), and use a minimum ozone depleting refrigerant (e.g., HCFC or HFC).

*Many heat pumps list two COP ratings: one which applies to an outdoor temperature of 47° Fdb and 43° Fwb and another which applies to an outdoor temperature of 17°Fdb and 15°Fwb. The COP stanard listed in the table applies only to the COP rating at an outdoor temperature of 47°Fdb and 43°Fwb.

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HIGH EFFICIENCY AIR-COOLED CHILLERS						
Size (Ton)	Full-Load Optimized Applications (Path A)		Part-Load Optimized Applications (Path B)			
	EER	IPLV	EER	IPLV		
< 150	10.1	13.7	9.7	15.8		
≥ 150	10.1	14.0	9.7	16.1		

High efficiency air-cooled chillers may go through path A or B, but must meet or exceed both efficiency requirements.

UNITARY A/C UNITS							
Size (Ton)	Size (kBtu/h)	System Type	Minimu	Minimum Efficiency Levels			
3126 (1011)	Size (KDtu/Ti)	зуѕтепттуре	SEER	SEER2	IEER		
< 3.75	< 45	Split System	14	13.3			
< 3.75	< 45	Single Package	14	13.4			
≥ 3.75 to < 5.4	≥ 45 to < 65		14	13.4			
≥ 5.4 to < 11.25	≥ 65 to < 135	Split System			14.8		
≥ 11.25 to < 20	≥ 135 to < 240	&			14.2		
≥ 20 to < 63.3	≥ 240 to < 760	Single Package			13.2		
≥ 63.3	≥ 760				12.5		

UNITARY A/C UNITS - CEE ADVANCED TIER							
Size (Ton) Size (kBtu/h)		System Type	Minimum Efficiency Levels				
3126 (1011)	3126 (KD(U/11)	System Type	SEER	SEER2	IEER	EER	
< 5.4	< 65	Split System	18	17.1		13	
< 5.4	< 65	Single Package	17	16.3		12.5	
≥ 5.4 to < 11.25	≥ 65 to < 135	Split System			18	12.6	
≥ 11.25 to < 20	≥ 135 to < 240	& Single Package			17	12.2	
≥ 20 to < 63.3	≥ 240 to < 760				14.5	10.8	

All Non-CEE Advanced Tier HVAC units must exceed deemed program efficiency requirement tables on pages 1 – 3. Any CEE Advanced Tier HVAC units must meet or exceed deemed program efficiency requirement tables on pages 2 – 3. Except for air-cooled chillers and ground source heat pumps, equipment must exceed only one of the efficiency categories listed in the efficiency standards tables, based on the size of the unit.

All equipment must meet AHRI standards (210/240, 320 or 340/360), be listed by a Nationally Recognized Testing Laboratory (ETL, UL, etc.), and use a minimum ozone depleting refrigerant (e.g., HCFC or HFC).

GROUND SOURCE HEAT PUMPS					
Size (Ton) System Type	Minimum Efficiency Levels				
3126 (1011)	System Type	EER	СОР		
All Sizes Eligible	Ground Loop - Closed		3.2		
All Sizes Eligible	Ground Water Loop - Open	18	3.7		

Ground source heat pumps must meet or exceed both efficiency requirements.

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ADVANCED TIER HEAT PUMPS						
Size (kBtu/h)	System Type	Minimum Efficiency Levels				
Size (KDtd/TI)	System Type	SEER	HSPF	IEER	СОР	
< 65,000 Btu/h	Split System	17.9	9.4			
< 65,000 Btu/h	Single Package	16.6	9.4			
≥ 65,000 Btu/h and < 135,000 Btu/h	Split System			17.6	3.6	
≥ 135,000 Btu/h and < 240,000 Btu/h	& Single Package			16.8	3.5	
≥ 240,000 Btu/h				15.6	3.4	

All equipment must meet AHRI standards (210/240, 320 or 340/360), be listed by a Nationally Recognized Testing Laboratory (ETL, UL, etc.), and use a minimum ozone depleting refrigerant (e.g., HCFC or HFC).

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^{*}Many heat pumps list two COP ratings: one which applies to an outdoor temperature of 47° Fdb and 43° Fwb and another which applies to an outdoor temperature of 17°Fdb and 15°Fwb. The COP stanard listed in the table applies only to the COP rating at an outdoor temperature of 47°Fdb and 43°Fwb.