TABLE 14-1C
WATER CHILLING PACKAGES, MINIMUM EFFICIENCY REQUIREMENTS

Equipment Type	Size Category	((~~Sub-Category or Rating Condition~~)) **Maximum kW/Ton**[d]	Minimum Efficiency[b]	Test Procedure[a]
Air Cooled, With Condenser, Electrically Operated	All Capacities	1.26 0.95	2.80 COP ((~~3.05~~))3.70 IPLV	ARI 550/590
Air Cooled, Without Condenser, Electrically Operated	All Capacities	1.13 0.85	3.10 COP ((~~3.45~~))4.15 IPLV	
Water Cooled, Electrically Operated	< 40 Tons	0.84 0.63	4.20 COP 5.55 IPLV	ARI 550/590
	> 40 Tons and < 150 Tons	0.79 0.61	4.45 COP 5.80 IPLV	
	≥150 Tons and < 300 Tons	0.63 0.54	5.55 COP[c] 6.50 IPLV	
	≥300 Tons	0.58 0.50	6.10 COP[c] 7.05 IPLV	
((~~Water Cooled, Electrically Operated, Positive Displacement (Reciprocating)~~))	((~~All Capacities~~))		((~~4.20 COP~~)) ((~~5.05 IPLV~~))	((~~ARI 550/590~~))
((~~Water Cooled, Electrically Operated, Positive Displacement (Rotary Screw and Scroll)~~))	((~~<150 Tons~~))		((~~4.45 COP 5.05 IPLV~~))	((~~ARI 550/590~~))
	((~~≥150 Tons and <300 Tons~~))		((~~4.90 COP 5.60 IPLV~~))	
	((~~≥300 Tons~~))		((~~5.50 COP 6.15 IPLV~~))	
((~~Water Cooled, Electrically Operated, Positive Displacement (Centrifugal)~~))	((~~<150 Tons~~))		((~~5.00 COP 5.25 IPLV~~))	((~~ARI 550/590~~))
	((~~≥150 Tons and <300 Tons~~))		((~~5.55 COP 5.90 IPLV~~))	
	((~~≥300 Tons~~))		((~~6.10 COP 6.40 IPLV~~))	
Air Cooled Absorption Single Effect	All Capacities		0.60 COP	ARI 560
Water Cooled Absorption Single Effect	All Capacities		0.70 COP	ARI 560
Absorption Double Effect, Indirect-Fired	All Capacities		1.00 COP 1.05 IPLV	ARI 560
Absorption Double Effect, Direct-Fired	All Capacities		1.00 COP 1.00 IPLV	ARI 560

[a] Reserved.
[b] ((~~The chiller equipment requirements do not apply for chillers used in low temperature applications where the design leaving fluid temperature is less than or equal to 40°F.~~)) Reserved.
[c] COP requirements do not apply to other than centrifugal equipment.
[d] This column is inserted for the convenience of users. The values are converted from the COP and IPVL values in the following column using the equation: kW/ton=1/(COP x 3413/12000).