

FlashCool Additional Capacity



FlashCool is a bolt-on ducted evaporative pre-cooler designed for use with new or existing HVAC condensers as an energy efficiency device, but with the bonus of adding peak cooling capacity while decreasing both peak demand and total energy consumption.

By lowering entering peak ambient air temperature by 20°-30°F or more, FlashCool can raise cooling capacity of existing equipment by over 20% depending upon the system.

FlashCool's unique water distribution and evaporative media combination delivers very high thermal efficiency at a very low static pressure drop while avoiding scale buildup. When combined with drift eliminators, our system largely eliminates the scale formation that has plagued previous evaporative pre-coolers.



50 Ton R-22			
Cooling at 115°F	572	590	611
Cooling at 85°F	654	673	698
Difference	82	83	87
Capacity Gain	14.3%	14.1%	14.2%
Weight	8,290		
	Trane Intellipak, pg 36	Trane Intellipak, pg 37	Trane Intellipak, pg 37

60 Ton R-22			
Cooling at 115°F	655	712	
Cooling at 85°F	751	815	
Difference	96	103	
Capacity Gain	14.7%	14.5%	
Weight	9,480		
	Trane Intellipak, pg 39	Trane Intellipak, pg 40	

90 Ton R-22			
Cooling at 115°F	915	1006	1015
Cooling at 85°F	1078	1188	1199
Difference	163	182	184
Capacity Gain	17.8%	18.1%	18.1%
Weight	14,580		
	Trane Intellipak, page 42	Trane Intellipak, page 43	Trane Intellipak, page 43

50 Ton 410a			
Cooling at 115°F	518	556	
Cooling at 85°F	622	667	
Difference	104	111	
Capacity Gain	20.1%	20.0%	
Weight	8,810		
	Trane Intellipak 410a, pg 53	Trane Intellipak 410a, pg 54	

60 Ton 410a			
Cooling at 115°F	629	649	
Cooling at 85°F	749	782	
Difference	120	133	
Capacity Gain	19.1%	20.5%	
Weight	9,858		
	Trane Intellipak 410a, pg 55	Trane Intellipak 410a, pg 56	

90 Ton 410a			
Cooling at 115°F	978	1114	
Cooling at 85°F	1162	1337	
Difference	184	223	
Capacity Gain	18.8%	20.0%	
Weight	14,440		
	Trane Intellipak, pg 48-49	Trane Intellipak, pg 50-51	