

Capacity correction factors

Height difference and pipe length



SYSPLIT CEILING 18-60 LNS HP

Capacity (Btu/h)		18K		Pipe Length (m)			
Cooling				5	10	20	30
Height difference H (m)	Indoor Upper than Outdoor	20				0.928	0.912
		10			0.969	0.937	0.921
		5	0.995	0.979	0.946	0.930	
		0	1.000	0.984	0.951	0.935	
	Outdoor Upper than Indoor	-5	1.000	0.984	0.951	0.935	
		-10		0.984	0.951	0.935	
		-20			0.951	0.935	
Heating				5	10	20	30
Height difference H (m)	Indoor Upper than Outdoor	20				0.982	0.976
		10			0.994	0.982	0.976
		5	1.000	0.994	0.982	0.976	
		0	1.000	0.994	0.982	0.976	
	Outdoor Upper than Indoor	-5	0.992	0.986	0.974	0.968	
		-10		0.978	0.966	0.960	
		-20			0.959	0.953	

Capacity (Btu/h)		24K		Pipe Length (m)					
Cooling				5	10	20	30	40	50
Height difference H (m)	Indoor Upper than Outdoor	25					0.914	0.894	0.874
		20				0.944	0.924	0.903	0.883
		10		0.975	0.954	0.933	0.912	0.891	
		5	0.995	0.984	0.963	0.942	0.921	0.900	
		0	1.000	0.989	0.968	0.947	0.926	0.905	
	Outdoor Upper than Indoor	-5	1.000	0.989	0.968	0.947	0.926	0.905	
		-10		0.989	0.968	0.947	0.926	0.905	
		-20			0.968	0.947	0.926	0.905	
		-25				0.947	0.926	0.905	
Heating				5	10	20	30	40	50
Height difference H (m)	Indoor Upper than Outdoor	25					0.983	0.977	0.970
		20				0.990	0.983	0.977	0.970
		10		0.997	0.990	0.983	0.977	0.970	
		5	1.000	0.997	0.990	0.983	0.977	0.970	
		0	1.000	0.997	0.990	0.983	0.977	0.970	
	Outdoor Upper than Indoor	-5	0.992	0.989	0.982	0.975	0.969	0.962	
		-10		0.981	0.974	0.968	0.961	0.955	
		-20			0.966	0.960	0.953	0.947	
		-25				0.952	0.946	0.939	

Capacity (Btu/h)	36k		Pipe Length (m)						
Cooling			5	15	25	35	50	65	75
Height difference H (m)	Indoor Upper than Outdoor	30	/	/	/	0.885	0.845	0.805	0.778
		20	/	/	0.921	0.894	0.854	0.813	0.786
		10	/	0.958	0.931	0.903	0.862	0.822	0.794
		5	0.995	0.967	0.940	0.912	0.871	0.830	0.802
		0	1.000	0.972	0.945	0.917	0.876	0.834	0.806
	Outdoor Upper than Indoor	-5	1.000	0.972	0.945	0.917	0.876	0.834	0.806
		-10	/	0.972	0.945	0.917	0.876	0.834	0.806
		-20	/	/	0.945	0.917	0.876	0.834	0.806
		-30	/	/	/	0.917	0.876	0.834	0.806
		Heating			5	15	25	35	50
Height difference H (m)	Indoor Upper than Outdoor	30	/	/	/	0.962	0.943	0.924	0.911
		20	/	/	0.975	0.962	0.943	0.924	0.911
		10	/	0.987	0.975	0.962	0.943	0.924	0.911
		5	1.000	0.987	0.975	0.962	0.943	0.924	0.911
		0	1.000	0.987	0.975	0.962	0.943	0.924	0.911
	Outdoor Upper than Indoor	-5	0.992	0.979	0.967	0.954	0.935	0.917	0.904
		-10	/	0.972	0.959	0.947	0.928	0.909	0.896
		-20	/	/	0.951	0.939	0.921	0.902	0.889
		-30	/	/	/	0.932	0.913	0.895	0.882

Capacity (Btu/h)	48k		Pipe Length (m)						
Cooling			5	15	25	35	50	65	75
Height difference H (m)	Indoor Upper than Outdoor	30	/	/	/	0.880	0.838	0.796	0.768
		20	/	/	0.918	0.889	0.846	0.804	0.775
		10	/	0.956	0.927	0.898	0.855	0.812	0.783
		5	0.995	0.966	0.937	0.907	0.864	0.820	0.791
		0	1.000	0.971	0.941	0.912	0.868	0.824	0.795
	Outdoor Upper than Indoor	-5	1.000	0.971	0.941	0.912	0.868	0.824	0.795
		-10	/	0.971	0.941	0.912	0.868	0.824	0.795
		-20	/	/	0.941	0.912	0.868	0.824	0.795
		-30	/	/	/	0.912	0.868	0.824	0.795
		Heating			5	15	25	35	50
Height difference H (m)	Indoor Upper than Outdoor	30	/	/	/	0.956	0.933	0.911	0.896
		20	/	/	0.970	0.956	0.933	0.911	0.896
		10	/	0.985	0.970	0.956	0.933	0.911	0.896
		5	1.000	0.985	0.970	0.956	0.933	0.911	0.896
		0	1.000	0.985	0.970	0.956	0.933	0.911	0.896
	Outdoor Upper than Indoor	-5	0.992	0.977	0.963	0.948	0.926	0.904	0.889
		-10	/	0.969	0.955	0.940	0.918	0.896	0.882
		-20	/	/	0.947	0.933	0.911	0.889	0.875
		-30	/	/	/	0.925	0.904	0.882	0.868

Capacity (Btu/h)	60k		Pipe Length (m)						
Cooling			5	15	25	35	50	65	75
Height difference H (m)	Indoor Upper than Outdoor	30	/	/	/	0.866	0.816	0.767	0.734
		20	/	/	0.908	0.875	0.825	0.774	0.741
		10	/	0.951	0.917	0.884	0.833	0.782	0.749
		5	0.995	0.961	0.927	0.893	0.841	0.790	0.756
		0	1.000	0.966	0.931	0.897	0.846	0.794	0.760
	Outdoor Upper than Indoor	-5	1.000	0.966	0.931	0.897	0.846	0.794	0.760
		-10	/	0.966	0.931	0.897	0.846	0.794	0.760
		-20	/	/	0.931	0.897	0.846	0.794	0.760
		-30	/	/	/	0.897	0.846	0.794	0.760
	Heating			5	15	25	35	50	65
Height difference H (m)	Indoor Upper than Outdoor	30	/	/	/	0.953	0.929	0.905	0.889
		20	/	/	0.968	0.953	0.929	0.905	0.889
		10	/	0.984	0.968	0.953	0.929	0.905	0.889
		5	1.000	0.984	0.968	0.953	0.929	0.905	0.889
		0	1.000	0.984	0.968	0.953	0.929	0.905	0.889
	Outdoor Upper than Indoor	-5	0.992	0.976	0.961	0.945	0.921	0.898	0.882
		-10	/	0.968	0.953	0.937	0.914	0.891	0.875
		-20	/	/	0.945	0.930	0.907	0.883	0.868
		-30	/	/	/	0.922	0.899	0.876	0.861