BUILDING ENVELOPE COOLING LOADS

at Space Peak

By RLF

Alternative 1

		WALL				WINDOW						
		Plenum	Plenum	Space	Space	Space	Plenum		Space	Space	Plenum	Plenum
		Load	CLTD	Load	CLTD	Solar	Solar	Solar	Conduction	CLTD	Conduction	CLTD
System Zone Room		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	CLF	Btu/h	°F	Btu/h	°F
174E-OFFICE	Zn Tot/Ave	341	24.3	1,325	28.6	0	0	0.000	154	16.1	0	0.0
175A-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
175B-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
175C-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
175D-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
174-ENTRY/RECEPTION	Zn Tot/Ave	391	21.2	895	26.6	3,980	0	0.828	1,765	18.6	0	0.0
175-ELEC	Zn Tot/Ave	127	30.9	576	35.2	0	0	0.000	0	0.0	0	0.0
174F-CORRIDOR	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
AHU	Sys Tot/Ave	859	23.5	2,796	29.0	3,980	0	0.828	1,920	18.4	0	0.0
AHU	Sys Block	826	22.5	2,694	28.0	3,980	0	0.828	1,937	18.5	0	0.0

			ROC)F ———								
		Plenum		Space					Plenum		Space	
		Sensible	Plenum	Sensible	Space	Plenum	Space		Conduction	Plenum	Conduction	Space
		Load	CLTD	Load	CLTD	Solar	Solar		Load	CLTD	Load	CLTD
System Zone Room		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	Solar CLF	Btu/h	°F	Btu/h	°F
174E-OFFICE	Zn Tot/Ave	1,147	58.6	0	62.8	0	0	0.000	0	0.0	0	0.0
175A-OFFICE	Zn Tot/Ave	891	89.3	0	95.4	0	0	0.000	0	0.0	0	0.0
175B-OFFICE	Zn Tot/Ave	891	89.3	0	95.4	0	0	0.000	0	0.0	0	0.0
175C-OFFICE	Zn Tot/Ave	891	89.3	0	95.4	0	0	0.000	0	0.0	0	0.0
175D-OFFICE	Zn Tot/Ave	891	89.3	0	95.4	0	0	0.000	0	0.0	0	0.0
174-ENTRY/RECEPTION	Zn Tot/Ave	2,146	72.6	0	78.0	0	0	0.000	0	0.0	0	0.0
175-ELEC	Zn Tot/Ave	357	62.2	0	66.5	0	0	0.000	0	0.0	0	0.0
174F-CORRIDOR	Zn Tot/Ave	2,888	87.7	0	93.8	0	0	0.000	0	0.0	0	0.0
AHU	Sys Tot/Ave	10,103	79.1	0	83.0	0	0	0.000	0	0.0	0	0.0
AHU	Sys Block	9,196	72.0	0	77.4	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Space Peak

By RLF

		FLOOR		PART	PARTITION —		INFILTRATION —			CEILING -		
									Plenum		Envelope	
		Load	CLTD	Load	CLTD	Airflow	Sensible	Latent	Dry Bulb	Load	Total	
System Zone Room		Btu/h	°F	Btu/h	°F	cfm	Btu/h	Btu/h	°F	Btu/h	Btu/h	
174E-OFFICE	Zn Tot/Ave	0	0.0	1,020	20.0	0	0	0	79.2	211	4,197	
175A-OFFICE	Zn Tot/Ave	0	0.0	739	20.0	0	0	0	81.1	154	1,784	
175B-OFFICE	Zn Tot/Ave	0	0.0	732	20.0	0	0	0	81.1	154	1,777	
175C-OFFICE	Zn Tot/Ave	0	0.0	739	20.0	0	0	0	81.1	154	1,784	
175D-OFFICE	Zn Tot/Ave	0	0.0	739	20.0	0	0	0	81.1	154	1,784	
174-ENTRY/RECEPTION	Zn Tot/Ave	0	0.0	2,504	20.0	0	0	0	80.4	404	12,085	
175-ELEC	Zn Tot/Ave	0	0.0	728	14.1	0	0	0	79.2	62	1,850	
174F-CORRIDOR	Zn Tot/Ave	0	0.0	4,136	20.0	0	0	0	81.1	509	7,532	
AHU	Sys Tot/Ave	0	0.0	11,335	19.5	0	0	0	80.6	1,802	32,794	
AHU	Sys Block	0	0.0	11,281	19.4	0	0	0	80.4	1,745	31,659	

		SL	JPPLY AIR TE	MPERATURE	S AIRFLOW	'S —					
UNDER FLOOR System Zone Room		Supply Airflow into Uflr Plen cfm	Uflr Plen Air Leakage To Space cfm	Supply Tem Entering Uflr Plen °F	perature Leaving Uflr Plen °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Plen Btu/h	Conduction From Adj Ceiling No Plen Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
174E-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	
175A-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
175B-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
175C-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
175D-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
174-ENTRY/RECEPTION	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
175-ELEC	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
174F-CORRIDOR	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
AHU	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
AHU	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0

Project Name: Dataset Name: TRACE® 700 v6.3.4 calculated at 05:04 PM on 01/24/2023 Alternative - 1 Envelope Loads at Space Peak Report Page 2 of 2